2095455

SAFETY DATA SHEET

Revision date 13-Sep-2022

1. Identification	
Product identifier	
Product Name	LG-2 Black Lustre
Other means of identification	
Product Code(s)	FG00227
Synonyms	39142B
Recommended use of the chemica	l and restrictions on use
Recommended use	
Restrictions on use	
Details of the supplier of the safety	v data sheet
Manufacturer Address American Art Clay Co Inc 6060 Guion Road Indianapolis, IN 46254-1222 USA Toll Free: 1-800-999-5456 CustomerCare@Amaco.com	
Emergency telephone number	
Emergency Telephone	U.S. Poison Control 1-800-222-1222

2. Hazard(s) identification

Classification

Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1
Carcinogenicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2

Hazards not otherwise classified (HNOC)

Not applicable

Label elements



Revision Number 1

Hazard statements Danger

- H301 Toxic if swallowed
- H317 May cause an allergic skin reaction
- H332 Harmful if inhaled
- H350 May cause cancer
- H373 May cause damage to organs through prolonged or repeated exposure



Physical state Liquid

Precautionary Statements - Prevention Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Contaminated work clothing must not be allowed out of the workplace

Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention Specific treatment (see .? on this label) IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown acute toxicity

5.0602 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
3.6516 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
50.7022 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
50.7022 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
10.8122 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Other information

May be harmful in contact with skin. Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

3. Composition/information on ingredients

Not applicable.

Mixture

Chemical name	CAS No	Weight-%
Frits, chemicals	65997-18-4	20 - 40

Kaolin	1332-58-7	3 - <5
Copper oxide (CuO)	1317-38-0	1 - <3
Spinels, chromium cobalt iron black	68186-97-0	1 - <3
Zinc oxide (ZnO)	1314-13-2	1 - <3
Manganese	7439-96-5	1 - <3
1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol	4719-04-4	0.1 - 1

4. First-aid measures

Description of first aid measures		
General advice	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.	
Inhalation	Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.	
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.	

5. Fire-fighting measures

Suitable Extinguishing Media Large Fire	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.	
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.	
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.	
Explosion data Sensitivity to mechanical impact None.		
Sensitivity to static discharge	None.	
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.	
Other information	Refer to protective measures listed in Sections 7 and 8.	
Methods and material for cont	ainment and cleaning up	
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Pick up and transfer to properly labeled containers.	

7. Handling and storage

Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.
Conditions for safe storage,	including any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Frits, chemicals	STEL: 10 mg/m ³ Zr	TWA: 10 µg/m³ As	IDLH: 5 mg/m ³ As
65997-18-4	TWA: 0.01 mg/m ³ As	TWA: 50 µg/m ³ Pb	IDLH: 9 mg/m ³ Cd dust and
	TWA: 0.05 mg/m ³ Pb	TWA: 0.5 mg/m ³ Sb	fume
	TWA: 0.01 mg/m ³ Cd	TWA: 5 mg/m ³ Zr	IDLH: 50 mg/m ³ Sb
	TWA: 0.002 mg/m ³ Cd	(vacated) TWA: 0.5 mg/m ³ Sb	IDLH: 100 mg/m ³ Cu dust and
	respirable particulate matter	(vacated) TWA: 5 mg/m ³ Zr	mist
	TWA: 0.5 mg/m ³ Sb	(vacated) STEL: 10 mg/m ³ Zr	IDLH: 500 mg/m ³ Mn
	TWA: 1 mg/m ³ Cu dust and mist	(vacated) Ceiling: 5 mg/m ³	IDLH: 25 mg/m ³ Zr
	TWA: 3 mg/m ³ W respirable	Ceiling: 5 mg/m ³ Mn	IDLH: 100 mg/m ³ Pb
	particulate matter in the absence		IDLH: 10 mg/m ³ Ni
	of cobalt		Ceiling: 0.002 mg/m ³ As 15 min
	TWA: 5 mg/m ³ Zr		Ceiling: 0.05 mg/m ³ V dust and
	TWA: 0.02 mg/m ³ Mn respirable		fume 15 min
	particulate matter		TWA: 0.5 mg/m ³ Sb
	TWA: 0.1 mg/m ³ Mn inhalable		TWA: 1 mg/m ³ Cu dust and
	particulate matter		mist
			TWA: 1 mg/m ³ Mn
			TWA: 5 mg/m ³ except Zirconium
			tetrachloride Zr
			TWA: 0.050 mg/m ³ Pb
			TWA: 0.015 mg/m ³ except

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			Nickel carbonyl Ni
			STEL: 3 mg/m ³ Mn
			STEL: 10 mg/m ³ Zr
Kaolin	TWA: 2 mg/m ³ particulate	TWA: 15 mg/m ³ total dust	TWA: 10 mg/m ³ total dust
1332-58-7	matter containing no asbestos	TWA: 5 mg/m ³ respirable	TWA: 5 mg/m ³ respirable dust
	and <1% crystalline silica,	fraction	
	respirable particulate matter	(vacated) TWA: 10 mg/m ³ total	
		dust	
		(vacated) TWA: 5 mg/m ³	
		respirable fraction	
Copper oxide (CuO)	TWA: 1 mg/m ³ Cu dust and mist	-	IDLH: 100 mg/m ³ Cu dust and
1317-38-0			mist
			TWA: 0.1 mg/m ³ Cu fume
Spinels, chromium cobalt iron black	TWA: 0.02 mg/m ³ Co inhalable	TWA: 0.5 mg/m ³ Cr	IDLH: 25 mg/m ³ Cr(III)
68186-97-0	particulate matter	(vacated) TWA: 0.5 mg/m ³ Cr	TWA: 0.5 mg/m ³ Cr
Zinc oxide (ZnO)	STEL: 10 mg/m ³ respirable	TWA: 5 mg/m ³ fume	IDLH: 500 mg/m ³
1314-13-2	particulate matter	TWA: 15 mg/m ³ total dust	Ceiling: 15 mg/m ³ dust
1011102	TWA: 2 mg/m ³ respirable	TWA: 5 mg/m ³ respirable	TWA: 5 mg/m ³ dust and fume
	particulate matter	fraction	STEL: 10 mg/m ³ fume
	F	(vacated) TWA: 5 mg/m ³ fume	
		(vacated) TWA: 10 mg/m ³ total	
		dust	
		(vacated) TWA: 5 mg/m ³	
		respirable fraction	
		(vacated) STEL: 10 mg/m ³	
		fume	
Manganese	TWA: 0.02 mg/m ³ respirable	(vacated) TWA: 1 mg/m ³ fume	IDLH: 500 mg/m ³
7439-96-5	particulate matter	(vacated) STEL: 3 mg/m ³ fume	
	TWA: 0.1 mg/m ³ inhalable	(vacated) Ceiling: 5 mg/m ³	STEL: 3 mg/m ³
	particulate matter	Ceiling: 5 mg/m ³ fume	

Biological occupational exposure limits

Chemical name	ACGIH
65997-18-4	200 μg/L - blood (Lead) - not critical 5 μg/g creatinine - urine (Cadmium) - not critical 5 μg/L - blood (Cadmium) - not critical
Spinels, chromium cobalt iron black 68186-97-0	15 μ g/L - urine (Cobalt) - end of shift at end of workweek

Appropriate engineering controls

Engineering controls	Showers Eyewash stations
	Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties

Information on basic physical and chemical properties

information on basic physical and c		
Physical state	Liquid	
Appearance		
Color		
Odor		
Odor threshold		
-		
Property	Values	Remarks • Method
рН	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range		None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	410	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
,		
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
VOC Content (%)	No information available	
. ,		

10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Excessive heat.
Incompatible materials	None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).
Eye contact	Specific test data for the substance or mixture is not available.

Skin contact	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May be harmful in contact with skin.
Ingestion	Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components).
Symptoms related to the p	physical, chemical and toxicological characteristics

Symptoms

Itching. Rashes. Hives. Coughing and/ or wheezing.

Acute toxicity

Numerical measures of toxicity No information available

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	262.20 mg/kg
ATEmix (dermal)	4,524.20 mg/kg
ATEmix (inhalation-dust/mist)	3.48 mg/l

Unknown acute toxicity

5.0602 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
3.6516 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
50.7022 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
50.7022 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
10.8122 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Frits, chemicals 65997-18-4	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Kaolin 1332-58-7	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Copper oxide (CuO) 1317-38-0	-	> 2000 mg/kg (Rat)	-
Spinels, chromium cobalt iron black 68186-97-0	-	-	> 5.09 mg/L (Rat)4 h
Zinc oxide (ZnO) 1314-13-2	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 5700 mg/m³(Rat)4 h
Manganese 7439-96-5	= 9 g/kg (Rat)	-	> 5.14 mg/L (Rat)4 h
1,3,5-Triazine-1,3,5(2H,4H,6H)-t riethanol 4719-04-4	= 763 mg/kg (Rat)	> 4000 mg/kg (Rat)	= 0.4 mg/L (Rat)4 h = 0.338 mg/L (Rat)4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.	
Serious eye damage/eye irritation	No information available.	
Respiratory or skin sensitization	May cause an allergic skin reaction.	
Germ cell mutagenicity	No information available.	
Carcinogenicity	Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.	
The table below indicates whether each agency has listed any ingredient as a carcinogen.		

			ao a carcinegoni	
Chemical name	e ACGIH	IARC	NTP	OSHA

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		•		
Frits, chemicals	A1	Group 1	Known	Х
65997-18-4	A3	Group 2B	Reasonably Anticipated	
	A2	Group 2A		
Spinels, chromium cobalt	A3	Group 2B	Reasonably Anticipated	Х
iron black		Group 3		
68186-97-0				
Legend				
A1 - Known Human Caro A2 - Suspected Human A3 - Animal Carcinogen IARC (International Ag Group 1 - Carcinogenic f Group 2A - Probably Ca Group 2B - Possibly Car Group 3 - Not Classifiab NTP (National Toxicolo Known - Known Carcino Reasonably Anticipated	cinogen Carcinogen ency for Research or to Humans rcinogenic to Humans cinogenic to Humans le as to Carcinogenicit ogy Program) gen - Reasonably Anticipa		nogen	
Reproductive toxicity	No informa	tion available.		
STOT - single exposure	No informa	No information available.		
STOT - repeated exposure	May cause	May cause damage to organs through prolonged or repeated exposure.		
Target organ effects	Vascular S	Liver, Kidney, Respiratory system, Eyes, Skin, Central nervous system, Blood, Central Vascular System (CVS), Lungs, Nasal Cavities, Lymphatic System, prostate, Gastrointestinal tract (GI).		
Aspiration hazard	No informa	No information available.		
Other adverse effects				
Interactive effects				

12. Ecological information

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Zinc oxide (ZnO) 1314-13-2	-	LC50: =1.55mg/L (96h, Danio rerio)	-	-
Manganese 7439-96-5	-	LC50: >3.6mg/L (96h, Oncorhynchus mykiss)	-	-
1,3,5-Triazine-1,3,5(2H,4 H,6H)-triethanol 4719-04-4	-	LC50: =16.07mg/L (96h, Danio rerio)	-	-

Persistence and degradability

Bioaccumulation	There is no data for this product.
Other adverse effects	No information available.

13. Disposal considerations		
Disposal methods		
Waste from residues/unused products	Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.	
Contaminated packaging	Do not reuse empty containers.	
California Hazardous Waste Status	This product contains one or more substances that are listed with the State of California as a hazardous waste.	

14. Transport information

DOT	Not regulated
UN number or ID number Packing group	UN3082 III

15. Regulatory information

International Inventories

TSCA

Contact supplier for inventory compliance status.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Water	7732-18-5	Present	Active
Frits, chemicals	65997-18-4	Present	Active
Kaolin	1332-58-7	Present	Active
Copper oxide (CuO)	1317-38-0	Present	Active
Spinels, chromium cobalt iron black	68186-97-0	Present	Active
Zinc oxide (ZnO)	1314-13-2	Present	Active
Manganese	7439-96-5	Present	Active
Sodium carboxymethyl cellulose	9004-32-4	Present	Active
Smectite-group minerals	12199-37-0	Present	Active
1,3,5-Triazine-1,3,5(2H,4H,6H)-trietha nol	4719-04-4	Present	Active
Aluminum oxide (Al2O3)	1344-28-1	Present	Active
D-gluco-Heptonic acid, monosodium salt, (2.xi.)-	31138-65-5	Present	Active
Quartz	14808-60-7	Present	Active
Iron oxide (Fe2O3)	1309-37-1	Present	Active
Copper(I) oxide	1317-39-1	Present	Active
Barium oxide	1304-28-5	Present	Active
Ethanolamine	141-43-5	Present	Active

DSL/NDSL EINECS/ELINCS ENCS	Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIOC	Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Frits, chemicals - 65997-18-4	0.1
	1.0
Copper oxide (CuO) - 1317-38-0	1.0
Spinels, chromium cobalt iron black - 68186-97-0	0.1
	1.0
Zinc oxide (ZnO) - 1314-13-2	1.0
Manganese - 7439-96-5	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Frits, chemicals 65997-18-4	-	Х	-	-
Copper oxide (CuO) 1317-38-0	-	Х	-	-
Spinels, chromium cobalt iron black 68186-97-0	-	Х	-	-
Zinc oxide (ZnO) 1314-13-2	_	Х	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5	-	-	Х
Frits, chemicals 65997-18-4	Х	-	Х
Kaolin 1332-58-7	Х	X	Х
Copper oxide (CuO) 1317-38-0	Х	-	Х
Spinels, chromium cobalt iron black 68186-97-0	Х	-	Х
Zinc oxide (ZnO) 1314-13-2	Х	X	Х
Manganese 7439-96-5	Х	X	Х
Aluminum oxide (Al2O3) 1344-28-1	Х	X	Х
Quartz 14808-60-7	Х	X	Х
Iron oxide (Fe2O3) 1309-37-1	Х	X	Х
Copper(I) oxide 1317-39-1	Х	-	Х
Barium oxide 1304-28-5	Х	-	Х
Ethanolamine 141-43-5	Х	Х	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other inform	ation			
NFPA <u>HMIS</u> Chronic Hazard Star Lege	Health hazards 2 Health hazards 2 * and *= Chronic		Instability 0 Physical hazards 0	Special hazards - Personal protection X
	eviations and acronyms		a sheet	
TWA TW	posure controls/persona A (time-weighted average) ximum limit value	•	STEL (Short Ter Skin designation	rm Exposure Limit) າ
Agency for Toxic Subst U.S. Environmental Pro European Food Safety EPA (Environmental Pro Acute Exposure Guidel U.S. Environmental Pro U.S. Environmental Pro Food Research Journal Hazardous Substance I International Uniform C National Institute of Tec	otection Agency) ine Level(s) (AEGL(s)) otection Agency Federal Ins otection Agency High Produ I	ry (ATSDR) Database secticide, Fungicide, an action Volume Chemica ase (IUCLID) IITE)	d Rodenticide Act Is	

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NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date Revision Note <u>Disclaimer</u> 13-Sep-2022

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET

AMACO EST. 1919 brent

Revision Number 1

Revision date 13-Sep-2022

1. Identification	
Product identifier	
Product Name	LG-11 Opaque White
Other means of identification	
Product Code(s)	FG00225
Synonyms	39144S, 39174A
Recommended use of the chemical	and restrictions on use
Recommended use	
Restrictions on use	
Details of the supplier of the safety	data sheet
Manufacturer Address American Art Clay Co Inc 6060 Guion Road Indianapolis, IN 46254-1222 USA Toll Free: 1-800-999-5456 CustomerCare@Amaco.com	
Emergency telephone number	
Emergency Telephone	U.S. Poison Control 1-800-222-1222

2. Hazard(s) identification

Classification

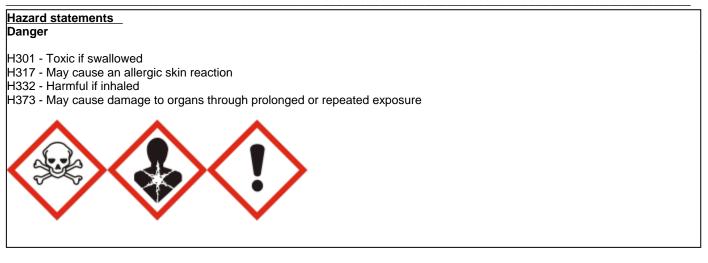
Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1
Specific target organ toxicity (repeated exposure)	Category 2

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

FG00225 - LG-11 Opaque White



Physical state Liquid

Precautionary Statements - Prevention Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Contaminated work clothing must not be allowed out of the workplace Wear protective gloves/clothing and eve/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

Specific treatment (see .? on this label) Get medical advice/attention if you feel unwell IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown acute toxicity

10.017 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
10.017 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
48.737 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
48.737 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
15.007 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Other information

Toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

3. Composition/information on ingredients

Not applicable.

<u>Mixture</u>

Chemical name	CAS No	Weight-%
Frits, chemicals	65997-18-4	20 - 40
Kaolin	1332-58-7	3 - <5
1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol	4719-04-4	0.1 - 1

4. First-aid measures

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.	
Inhalation	Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.	
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.	

5. Fire-fighting measures

Suitable Extinguishing Media Large Fire	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.
Explosion data	

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
precautions for fire-fighters	Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.
Other information	Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage		
Precautions for safe handling		
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.	

8. Exposure controls/personal protection

Control parameters

Exposure Limits

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Frits, chemicals	STEL: 10 mg/m ³ Zr	TWA: 10 µg/m³ As	IDLH: 5 mg/m ³ As
65997-18-4	TWA: 0.01 mg/m ³ As	TWA: 50 µg/m³ Pb	IDLH: 9 mg/m ³ Cd dust and
	TWA: 0.05 mg/m ³ Pb	TWA: 0.5 mg/m ³ Sb	fume
	TWA: 0.01 mg/m ³ Cd	TWA: 5 mg/m ³ Zr	IDLH: 50 mg/m ³ Sb
	TWA: 0.002 mg/m ³ Cd	(vacated) TWA: 0.5 mg/m ³ Sb	IDLH: 100 mg/m ³ Cu dust and
	respirable particulate matter	(vacated) TWA: 5 mg/m ³ Zr	mist
	TWA: 0.5 mg/m ³ Sb	(vacated) STEL: 10 mg/m ³ Zr	IDLH: 500 mg/m ³ Mn
	TWA: 1 mg/m ³ Cu dust and mist	(vacated) Ceiling: 5 mg/m ³	IDLH: 25 mg/m ³ Zr
	TWA: 3 mg/m ³ W respirable	Ceiling: 5 mg/m ³ Mn	IDLH: 100 mg/m ³ Pb
	particulate matter in the absence		IDLH: 10 mg/m ³ Ni
	of cobalt		Ceiling: 0.002 mg/m ³ As 15 min
	TWA: 5 mg/m ³ Zr		Ceiling: 0.05 mg/m ³ V dust and
	TWA: 0.02 mg/m ³ Mn respirable		fume 15 min
	particulate matter		TWA: 0.5 mg/m ³ Sb
	TWA: 0.1 mg/m ³ Mn inhalable		TWA: 1 mg/m ³ Cu dust and
	particulate matter		mist
			TWA: 1 mg/m ³ Mn
			TWA: 5 mg/m ³ except Zirconium
			tetrachloride Zr
			TWA: 0.050 mg/m ³ Pb
			TWA: 0.015 mg/m ³ except
			Nickel carbonyl Ni
			STEL: 3 mg/m ³ Mn
			STEL: 10 mg/m ³ Zr
Kaolin	TWA: 2 mg/m ³ particulate	TWA: 15 mg/m ³ total dust	TWA: 10 mg/m ³ total dust
1332-58-7	matter containing no asbestos	TWA: 5 mg/m ³ respirable	TWA: 5 mg/m ³ respirable dust
	and <1% crystalline silica,	fraction	
	respirable particulate matter	(vacated) TWA: 10 mg/m ³ total	
		dust	

	(vacated) TWA: 5 mg/m ³	
	respirable fraction	

Biological occupational exposure limits

Chemical name	ACGIH
Frits, chemicals	200 μg/L - blood (Lead) - not critical
65997-18-4	5 µg/g creatinine - urine (Cadmium) - not critical
	5 μg/L - blood (Cadmium) - not critical

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.		
Individual protection measures, such as personal protective equipment			
Eye/face protection	Wear safety glasses with side shields (or goggles).		
Hand protection	Wear suitable gloves.		
Skin and body protection	Wear suitable protective clothing.		
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.		
General hygiene considerations	Do not eat, drink or smoke when using this product.		

9. Physical and chemical properties

Physical state	Liquid
Appearance	
Color	
Odor	
Odor threshold	

Property	Values_	Remarks • Method
рН	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling rang	je No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	410	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

Other information	
Explosive properties	No information available
Oxidizing properties	No information available
VOC Content (%)	No information available

10. Stability and reactivity

Reactivity	No information available.	
Chemical stability	Stable under normal conditions.	
Possibility of hazardous reactions	None under normal processing.	
Conditions to avoid	Excessive heat.	
Incompatible materials	None known based on information supplied.	
Hazardous decomposition products None known based on information supplied.		

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components).
Ingestion	Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

Itching. Rashes. Hives. Coughing and/ or wheezing.

Acute toxicity

Numerical measures of toxicity

No information available

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	266.00 mg/kg
ATEmix (dermal)	5,037.40 mg/kg
ATEmix (inhalation-dust/mist)	3.78 mg/l

Unknown acute toxicity

10.017 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 10.017 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity 48.737 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 48.737 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

15.007 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Chemical name Oral LD50 Dermal LD50		Inhalation LC50
Frits, chemicals 65997-18-4	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Kaolin	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-

1332-58-7			
1,3,5-Triazine-1,3,5(2H,4H,6H)-t	= 763 mg/kg (Rat)	> 4000 mg/kg (Rat)	= 0.4 mg/L (Rat) 4 h
riethanol			= 0.338 mg/L (Rat) 4 h
4719-04-4			

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	No information available.

Carcinogenicity

No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Frits, chemicals	A1	Group 1	Known	Х
65997-18-4	A3	Group 2B	Reasonably Anticipated	
	A2	Group 2A		

Legend

	ACGIH (American Conference of Governm	nental Industrial Hygienists)					
	A1 - Known Human Carcinogen						
	A2 - Suspected Human Carcinogen						
	A3 - Animal Carcinogen						
	IARC (International Agency for Research	on Cancer)					
	Group 1 - Carcinogenic to Humans						
	Group 2A - Probably Carcinogenic to Human	IS					
	Group 2B - Possibly Carcinogenic to Humans NTP (National Toxicology Program)						
	Known - Known Carcinogen						
	Reasonably Anticipated - Reasonably Antici	bated to be a Human Carcinogen					
		dministration of the US Department of Labor)					
Re	Reproductive toxicity No inform	nation available					

Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Target organ effects	Liver, Kidney, Respiratory system, Eyes, Skin, Central nervous system, Blood, Central Vascular System (CVS), Lungs, Nasal Cavities, Lymphatic System, prostate, Gastrointestinal tract (GI).
Aspiration hazard	No information available.
Other adverse effects	
Interactive effects	

Ecotoxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1,3,5-Triazine-1,3,5(2H,4 H,6H)-triethanol	-	LC50: =16.07mg/L (96h, Danio rerio)	-	-
4719-04-4		Banio Tenoy		

Persistence and degradability

Bioaccumulation	There is no data for this product.

Other adverse effects No information available.

13. Disposal considerations			
Disposal methods			
Waste from residues/unused products	Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.		
Contaminated packaging	Do not reuse empty containers.		
California Hazardous Waste Status	This product contains one or more substances that are listed with the State of California as a hazardous waste.		

14. Transport information

DOT	Not regulated
UN number or ID number Packing group	UN3082 III

15. Regulatory information

International Inventories

TSCA

Contact supplier for inventory compliance status.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Water	7732-18-5	Present	Active
Frits, chemicals	65997-18-4	Present	Active
Feldspar	68476-25-5	Present	Active
Kaolin	1332-58-7	Present	Active
Smectite-group minerals	12199-37-0	Present	Active
Sodium carboxymethyl cellulose	9004-32-4	Present	Active
1,3,5-Triazine-1,3,5(2H,4H,6H)-trietha	4719-04-4	Present	Active

FG00225 - LG-11 Opaque White

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
nol			
Ethanolamine	141-43-5	Present	Active

DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC NZIOC	Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Frits, chemicals - 65997-18-4	0.1
	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Frits, chemicals 65997-18-4	-	Х	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water	-	-	Х

FG00225 - LG-11 Opaque White

7732-18-5			
Frits, chemicals 65997-18-4	Х	-	Х
Feldspar 68476-25-5	Х	-	Х
Kaolin 1332-58-7	Х	Х	Х
Ethanolamine 141-43-5	Х	Х	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information					
NFPA HMIS	Health hazards 2 Health hazards 2 *	Flammability Flammability		Instability 0 Physical hazards 0	Special hazards $\ \ -$ Personal protection $\ \ X$
Legend Section 8: I	breviations and acronyms Exposure controls/persona WA (time-weighted average) laximum limit value	I protection	ty data s STEL		m Exposure Limit)
Key literature refere Agency for Toxic Sub U.S. Environmental P European Food Safet EPA (Environmental I Acute Exposure Guid U.S. Environmental P U.S. Environmental P Food Research Journ Hazardous Substance International Uniform National Institute of T Australia National Ind NIOSH (National Instit National Library of Me National Library of Me National Toxicology F New Zealand's Chem Organization for Ecor	Protection Agency) eline Level(s) (AEGL(s)) protection Agency Federal Ins protection Agency High Produ- nal e Database Chemical Information Datab echnology and Evaluation (N lustrial Chemicals Notification itute for Occupational Safety edicine's ChemID Plus (NLM edicine's PubMed database Program (NTP) nical Classification and Inform nomic Co-operation and Devi- nomic Co-operation and Devi-	ry (ATSDR) Database secticide, Fungici uction Volume Ch ase (IUCLID) IITE) n and Assessmer and Health) CIP) (NLM PUBMED) nation Database (elopment Environ elopment High Pr	de, and R emicals nt Scheme (CCID) ment, He roduction	e (NICNAS) alth, and Safety Publicatio Volume Chemicals Progra	ons
	13-Sep-20 vided in this Safety Data S on. The information given i	heet is correct t			

transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET

AMACO EST. 1919 brent

Revision Number 1

Revision date 13-Sep-2022

1. Identification	
Product identifier	
Product Name	LG-20 Medium Blue
Other means of identification	
Product Code(s)	FG00228
Synonyms	38489F, 38517N
Recommended use of the chemical	and restrictions on use
Recommended use	
Restrictions on use	
Details of the supplier of the safety	data sheet
Manufacturer Address American Art Clay Co Inc 6060 Guion Road Indianapolis, IN 46254-1222 USA Toll Free: 1-800-999-5456 CustomerCare@Amaco.com	
Emergency telephone number	
Emergency Telephone	U.S. Poison Control 1-800-222-1222

2. Hazard(s) identification

Classification

Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1
Carcinogenicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Hazard statements Danger H301 - Toxic if swallowed H317 - May cause an allergic skin reaction H332 - Harmful if inhaled H350 - May cause cancer H373 - May cause damage to organs through prolonged or repeated exposure

Physical state Liquid

Precautionary Statements - Prevention Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Contaminated work clothing must not be allowed out of the workplace Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention Specific treatment (see .? on this label) IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown acute toxicity

3.027 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
3.027 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
47.887 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
47.887 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
6.017 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Other information

May be harmful in contact with skin. Toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

3. Composition/information on ingredients

Not applicable.

Mixture

Chemical name	CAS No	Weight-%
Frits, chemicals	65997-18-4	40 - 60

Kaolin	1332-58-7	1 - <3
C.I. Pigment Blue 73	68187-40-6	0.1 - 1
1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol	4719-04-4	0.1 - 1

4. First-aid measures	

Description of first aid measured

General advice	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.	
Inhalation	Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.	
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.	

5. Fire-fighting measures

Suitable Extinguishing Media Large Fire	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.	
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.	
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.	
Explosion data Sensitivity to mechanical impac	et None.	
Sensitivity to static discharge	None.	
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away

	from and upwind of spill/leak. Avoid breathing vapors or mists.		
Other information	Refer to protective measures listed in Sections 7 and 8.		
Methods and material for containment and cleaning up			
Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Pick up and transfer to properly labeled containers.		

7. Handling and storage

Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.	
Conditions for safe storage, including any incompatibilities		

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Frits, chemicals	STEL: 10 mg/m ³ Zr	TWA: 10 µg/m³ As	IDLH: 5 mg/m ³ As
65997-18-4	TWA: 0.01 mg/m ³ As	TWA: 50 µg/m ³ Pb	IDLH: 9 mg/m ³ Cd dust and
	TWA: 0.05 mg/m ³ Pb	TWA: 0.5 mg/m ³ Sb	fume
	TWA: 0.01 mg/m ³ Cd	TWA: 5 mg/m ³ Zr	IDLH: 50 mg/m ³ Sb
	TWA: 0.002 mg/m ³ Cd	(vacated) TWA: 0.5 mg/m ³ Sb	IDLH: 100 mg/m ³ Cu dust and
	respirable particulate matter	(vacated) TWA: 5 mg/m ³ Zr	mist
	TWA: 0.5 mg/m ³ Sb	(vacated) STEL: 10 mg/m ³ Zr	IDLH: 500 mg/m ³ Mn
	TWA: 1 mg/m ³ Cu dust and mist		IDLH: 25 mg/m ³ Zr
	TWA: 3 mg/m ³ W respirable	Ceiling: 5 mg/m ³ Mn	IDLH: 100 mg/m ³ Pb
	particulate matter in the absence		IDLH: 10 mg/m ³ Ni
	of cobalt		Ceiling: 0.002 mg/m ³ As 15 min
	TWA: 5 mg/m ³ Zr		Ceiling: 0.05 mg/m ³ V dust and
	TWA: 0.02 mg/m ³ Mn respirable		fume 15 min
	particulate matter		TWA: 0.5 mg/m ³ Sb
	TWA: 0.1 mg/m ³ Mn inhalable		TWA: 1 mg/m ³ Cu dust and
	particulate matter		mist
			TWA: 1 mg/m³ Mn
			TWA: 5 mg/m ³ except Zirconium
			tetrachloride Zr
			TWA: 0.050 mg/m ³ Pb
			TWA: 0.015 mg/m ³ except
			Nickel carbonyl Ni
			STEL: 3 mg/m ³ Mn
			STEL: 10 mg/m ³ Zr

FG00228 - LG-20 Medium Blue

Revision date 13-Sep-2022

Kaolin 1332-58-7	TWA: 2 mg/m ³ particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 10 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable du
C.I. Pigment Blue 73 68187-40-6	TWA: 0.02 mg/m ³ Co inhalable particulate matter	-	-

Biological occupational exposure limits

Chemical name	ACGIH
65997-18-4	200 μg/L - blood (Lead) - not critical 5 μg/g creatinine - urine (Cadmium) - not critical 5 μg/L - blood (Cadmium) - not critical
C.I. Pigment Blue 73 68187-40-6	15 μ g/L - urine (Cobalt) - end of shift at end of workweek

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties

Information on basic physical and	d chemical properties
Physical state	Liquid
Appearance	
Color	
Odor	
Odor threshold	
Property_	<u>Values</u>
pH	No data available
Melting point / freezing point	No data available

Melting point / freezing point	No data available
Initial boiling point and boiling range	e No data available
Flash point	No data available
Evaporation rate	No data available
Flammability	No data available
Flammability Limit in Air	
Upper flammability or explosive	No data available
limits	
Lower flammability or explosive	No data available
limits	
Vapor pressure	No data available

Remarks • Method None known

None known None known None known None known None known None known

None known

FG00228 - LG-20 Medium Blue

Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	410	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
VOC Content (%)	No information available	

10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Excessive heat.
Incompatible materials	None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

3.58 mg/l

3.027 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

11. Toxicological information	

Information on likely routes of exposure

ATEmix (inhalation-dust/mist)

Unknown acute toxicity

Product Information	
Inhalation	Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May be harmful in contact with skin.
Ingestion	Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components).
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing.
Acute toxicity	
Numerical measures of toxicity No information available	
The following values are calculated ATEmix (oral) ATEmix (dermal)	based on chapter 3.1 of the GHS document 238.50 mg/kg 4,644.00 mg/kg

3.027 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

47.887 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

47.887 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

6.017 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Frits, chemicals 65997-18-4	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Kaolin 1332-58-7	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
C.I. Pigment Blue 73 68187-40-6	-	-	= 5.3 mg/L (Rat)4 h > 5.3 mg/L (Rat)4 h
1,3,5-Triazine-1,3,5(2H,4H,6H)-t riethanol 4719-04-4	= 763 mg/kg (Rat)	> 4000 mg/kg (Rat)	= 0.4 mg/L (Rat)4 h = 0.338 mg/L (Rat)4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	No information available.

Carcinogenicity

Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Frits, chemicals	A1	Group 1	Known	Х
65997-18-4	A3	Group 2B	Reasonably Anticipated	
	A2	Group 2A		
C.I. Pigment Blue 73	A3	Group 2B	Reasonably Anticipated	Х
68187-40-6				

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
Target organ effects	Liver, Kidney, Respiratory system, Eyes, Skin, Central nervous system, Blood, Central Vascular System (CVS), Lungs, Nasal Cavities, Lymphatic System, prostate, Gastrointestinal tract (GI).		
Aspiration hazard	No information available.		
Other adverse effects			
Interactive effects			

12. Ecological information

Ecotoxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1,3,5-Triazine-1,3,5(2H,4 H,6H)-triethanol 4719-04-4	-	LC50: =16.07mg/L (96h, Danio rerio)	-	-

Persistence and degradability

Bioaccumulation	There is no data for this product.
Other adverse effects	No information available.

13. Disposal consideration	S
Disposal methods	
Waste from residues/unused products	Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.
Contaminated packaging	Do not reuse empty containers.
California Hazardous Waste Status	This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. Transport information

DOT

Not regulated

UN number or ID numberUN3082Packing groupIII

15. Regulatory information

International Inventories

TSCA

Contact supplier for inventory compliance status.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Water	7732-18-5	Present	Active
Frits, chemicals	65997-18-4	Present	Active
Kaolin	1332-58-7	Present	Active
Nepheline syenite	37244-96-5	-	Unknown *
C.I. Pigment Blue 73	68187-40-6	Present	Active
Sodium carboxymethyl cellulose	9004-32-4	Present	Active
Smectite-group minerals	12199-37-0	Present	Active
1,3,5-Triazine-1,3,5(2H,4H,6H)-trietha	4719-04-4	Present	Active
nol			
Ethanolamine	141-43-5	Present	Active

*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIoC	Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Frits, chemicals - 65997-18-4	0.1
	1.0
C.I. Pigment Blue 73 - 68187-40-6	0.1

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous
	Quantities		-	Substances

Frits, chemicals	-	Х	-	-
65997-18-4				

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water	-	-	Х
7732-18-5			
Frits, chemicals	X	-	Х
65997-18-4			
Kaolin	X	Х	Х
1332-58-7			
C.I. Pigment Blue 73	X	-	Х
68187-40-6			
Ethanolamine	X	X	X
141-43-5			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information					
NFPA HMIS Chronic Hazard St	Health hazards 2 Health hazards 2 ar Legend *= Ch			Instability 0 Physical hazards 0	Special hazards - Personal protection X
	o abbreviations and acrony n 8: Exposure controls/per		ty data sh	eet_	
TWA Ceiling	TWA (time-weighted aver Maximum limit value		STEL	STEL (Short Te Skin designation	erm Exposure Limit) n
Agency for Toxic U.S. Environmer European Food EPA (Environmer Acute Exposure U.S. Environmer U.S. Environmer Food Research Hazardous Subs International Uni National Institute Australia Nationa NIOSH (Nationa National Library National Library National Toxicolo New Zealand's C Organization for Organization for		egistry (ATSDR) View Database) al Insecticide, Fungici Production Volume Ch Database (IUCLID) on (NITE) cation and Assessmer afety and Health) NLM CIP) ase (NLM PUBMED) nformation Database (Development Environ Development High Pr	de, and Ro nemicals (CCID) ment, Hea roduction V	(NICNAS) Ith, and Safety Publicati olume Chemicals Progr	

World Health Organization

Revision date Revision Note <u>Disclaimer</u> 13-Sep-2022

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET



Revision Number 1

Revision date 13-Sep-2022

1. Identification	
Product identifier	
Product Name	LG-23 Robin's Egg
Other means of identification	
Product Code(s)	FG00230
Synonyms	38490G
Recommended use of the chemical	and restrictions on use
Recommended use	
Restrictions on use	
Details of the supplier of the safety	data sheet
Manufacturer Address American Art Clay Co Inc 6060 Guion Road Indianapolis, IN 46254-1222 USA Toll Free: 1-800-999-5456 CustomerCare@Amaco.com	
Emergency telephone number	
Emergency Telephone	U.S. Poison Control 1-800-222-1222

2. Hazard(s) identification

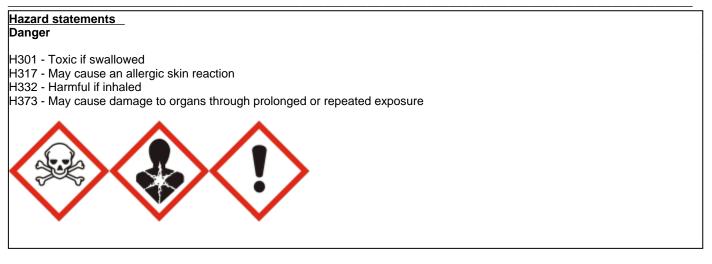
Classification

Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1
Specific target organ toxicity (repeated exposure)	Category 2

Hazards not otherwise classified (HNOC)

Not applicable

Label elements



Physical state Liquid

Precautionary Statements - Prevention Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Contaminated work clothing must not be allowed out of the workplace Wear protective gloves/clothing and eye/face protection Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

Specific treatment (see .? on this label) Get medical advice/attention if you feel unwell IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown acute toxicity

11.517 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
11.517 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
48.247 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
48.247 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
16.507 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Other information

Toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

3. Composition/information on ingredients

Not applicable.

<u>Mixture</u>

Chemical name	CAS No	Weight-%
Frits, chemicals	65997-18-4	20 - 40
Kaolin	1332-58-7	3 - <5
Zircon	14940-68-2	3 - <5
C.I. Pigment Blue 71	68186-95-8	3 - <5

	1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol	4719-04-4	0.1 - 1
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4. First-aid measures

Description of first aid measures		
General advice	Show this safety data sheet to the doctor in attendance.	
Inhalation	Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.	
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.	

5. Fire-fighting measures

Suitable Extinguishing Media Large Fire	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.
Explosion data Sensitivity to mechanical impact None.	
Sensitivity to static discharge	None.
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.
Other information	Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Frits, chemicals	STEL: 10 mg/m ³ Zr	TWA: 10 µg/m³ As	IDLH: 5 mg/m ³ As
65997-18-4	TWA: 0.01 mg/m ³ As	TWA: 50 µg/m ³ Pb	IDLH: 9 mg/m ³ Cd dust and
	TWA: 0.05 mg/m ³ Pb	TWA: 0.5 mg/m ³ Sb	fume
	TWA: 0.01 mg/m ³ Cd	TWA: 5 mg/m ³ Zr	IDLH: 50 mg/m ³ Sb
	TWA: 0.002 mg/m ³ Cd	(vacated) TWA: 0.5 mg/m ³ Sb	IDLH: 100 mg/m ³ Cu dust and
	respirable particulate matter	(vacated) TWA: 5 mg/m ³ Zr	mist
	TWA: 0.5 mg/m ³ Sb	(vacated) STEL: 10 mg/m ³ Zr	IDLH: 500 mg/m ³ Mn
	TWA: 1 mg/m ³ Cu dust and mist	(vacated) Ceiling: 5 mg/m ³	IDLH: 25 mg/m ³ Zr
	TWA: 3 mg/m ³ W respirable	Ceiling: 5 mg/m ³ Mn	IDLH: 100 mg/m ³ Pb
	particulate matter in the absence		IDLH: 10 mg/m ³ Ni
	of cobalt		Ceiling: 0.002 mg/m ³ As 15 min
	TWA: 5 mg/m ³ Zr		Ceiling: 0.05 mg/m ³ V dust and
	TWA: 0.02 mg/m ³ Mn respirable		fume 15 min
	particulate matter		TWA: 0.5 mg/m ³ Sb
	TWA: 0.1 mg/m ³ Mn inhalable		TWA: 1 mg/m ³ Cu dust and
	particulate matter		mist
			TWA: 1 mg/m³ Mn
			TWA: 5 mg/m ³ except Zirconium
			tetrachloride Zr
			TWA: 0.050 mg/m ³ Pb
			TWA: 0.015 mg/m ³ except
			Nickel carbonyl Ni
			STEL: 3 mg/m ³ Mn
			STEL: 10 mg/m ³ Zr
Kaolin	TWA: 2 mg/m ³ particulate	TWA: 15 mg/m ³ total dust	TWA: 10 mg/m ³ total dust
1332-58-7	matter containing no asbestos	TWA: 5 mg/m ³ respirable	TWA: 5 mg/m ³ respirable dust
	and <1% crystalline silica,	fraction	
	respirable particulate matter	(vacated) TWA: 10 mg/m ³ total	

FG00230 - LG-23 Robin's Egg

		dust (vacated) TWA: 5 mg/m ³ respirable fraction	
Zircon 14940-68-2	STEL: 10 mg/m³ Zr TWA: 5 mg/m³ Zr	TWA: 5 mg/m ³ Zr (vacated) TWA: 5 mg/m ³ Zr (vacated) STEL: 10 mg/m ³ Zr	IDLH: 25 mg/m ³ Zr TWA: 5 mg/m ³ except Zirconium tetrachloride Zr STEL: 10 mg/m ³ Zr
C.I. Pigment Blue 71 68186-95-8	STEL: 10 mg/m³ Zr TWA: 5 mg/m³ Zr	TWA: 5 mg/m ³ Zr (vacated) TWA: 5 mg/m ³ Zr (vacated) STEL: 10 mg/m ³ Zr	IDLH: 25 mg/m ³ Zr Ceiling: 0.05 mg/m ³ V dust and fume 15 min TWA: 5 mg/m ³ except Zirconium tetrachloride Zr STEL: 10 mg/m ³ Zr

Biological occupational exposure limits

Chemical name	ACGIH
Frits, chemicals	200 μg/L - blood (Lead) - not critical
65997-18-4	5 μg/g creatinine - urine (Cadmium) - not critical
	5 µg/L - blood (Cadmium) - not critical

Appropriate engineering controls

Engineering controls	Showers
	Eyewash stations
	Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product.

9. Physical and chemical properties

Information on basic physical and c Physical state Appearance Color Odor Odor threshold	<u>hemical properties</u> Liquid
Property	Values
pH	No data available
Melting point / freezing point	No data available
Initial boiling point and boiling rang	eNo data available
Flash point	No data available
Evaporation rate	No data available
Flammability	No data available
Flammability Limit in Air	
Upper flammability or explosive	No data available
limits	
Lower flammability or explosive	No data available
limits	

Remarks • Method

None known None known None known None known None known None known

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Vapor pressure Relative vapor density Relative density Water solubility Solubility(ies) Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity	No data available No data available No data available No data available No data available No data available 410	None known None known None known None known None known None known None known None known None known
Dynamic viscosity	No data available	None known
Other information Explosive properties Oxidizing properties VOC Content (%)	No information available No information available No information available	

10. Stability and reactivity

11. Toxicological information

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Excessive heat.
Incompatible materials	None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

Information on likely routes of expo	osure
Product Information	
Inhalation	Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components).
Ingestion	Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components).
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing.
Acute toxicity	
Numerical measures of toxicity No information available	
The following values are calculated ATEmix (oral) ATEmix (dermal) ATEmix (inhalation-dust/mist)	d based on chapter 3.1 of the GHS document 277.90 mg/kg 5,245.60 mg/kg 3.95 mg/l

Unknown acute toxicity

- 11.517 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 11.517 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 48.247 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 48.247 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 16.507 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Frits, chemicals	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
65997-18-4			
Kaolin	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
1332-58-7			
C.I. Pigment Blue 71	-	-	> 5.1 mg/L (Rat)4 h
68186-95-8			
1,3,5-Triazine-1,3,5(2H,4H,6H)-t	= 763 mg/kg (Rat)	> 4000 mg/kg (Rat)	= 0.4 mg/L (Rat) 4 h
riethanol			= 0.338 mg/L (Rat) 4 h
4719-04-4			

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	No information available.

Carcinogenicity

No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Frits, chemicals	A1	Group 1	Known	Х
65997-18-4	A3	Group 2B	Reasonably Anticipated	
	A2	Group 2A		

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity	No information available.		
STOT - single exposure	No information available.		
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.		

Target organ effects	Liver, Kidney, Respiratory system, Eyes, Skin, Central nervous system, Blood, Central Vascular System (CVS), Lungs, Nasal Cavities, Lymphatic System, prostate, Gastrointestinal tract (GI).
Aspiration hazard	No information available.
Other adverse effects	
Interactive effects	

12. Ecological information

Ecotoxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
1,3,5-Triazine-1,3,5(2H,4	-	LC50: =16.07mg/L (96h,	-	-
H,6H)-triethanol		Danio rerio)		
4719-04-4				

Persistence and degradability

Bioaccumulation	There is no data for this product.

Other adverse effects

No information available.

13. Disposal considerations				
Disposal methods				
Waste from residues/unused products	Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.			
Contaminated packaging	Do not reuse empty containers.			
California Hazardous Waste Status	This product contains one or more substances that are listed with the State of California as a hazardous waste.			
14. Transport information				

DOT

Not regulated

UN number or ID number UN3082 Packing group III

15. Regulatory information

International Inventories

TSCA

Contact supplier for inventory compliance status.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Water	7732-18-5	Present	Active
Frits, chemicals	65997-18-4	Present	Active
Kaolin	1332-58-7	Present	Active
Zircon	14940-68-2	Present	Active
C.I. Pigment Blue 71	68186-95-8	Present	Active
Nepheline syenite	37244-96-5	-	Unknown *
Smectite-group minerals	12199-37-0	Present	Active
Sodium carboxymethyl cellulose	9004-32-4	Present	Active
C.I. Pigment Brown 33	68186-88-9	Present	Active
1,3,5-Triazine-1,3,5(2H,4H,6H)-trietha	4719-04-4	Present	Active
nol			
Ethanolamine	141-43-5	Present	Active

*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIOC	Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %	
Frits, chemicals - 65997-18-4	0.1	
	1.0	
C.I. Pigment Blue 71 - 68186-95-8	1.0	

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous
	Quantities			Substances

Frits, chemicals	-	Х	-	-
65997-18-4				

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water	-	-	Х
7732-18-5			
Frits, chemicals	Х	-	X
65997-18-4			
Kaolin	Х	Х	X
1332-58-7			
C.I. Pigment Blue 71	Х	-	-
68186-95-8			
C.I. Pigment Brown 33	Х	-	X
68186-88-9			
Ethanolamine	Х	Х	X
141-43-5			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information				
NFPA HMIS	Health hazards 2 Health hazards 2 *	Flammability 0 Flammability 0	Instability 0 Physical hazards 0	Special hazards $\ \ -$ Personal protection $\ \ X$
	abbreviations and acronyms u		heet	
TWA Ceiling	3: Exposure controls/personal TWA (time-weighted average) Maximum limit value	STEL *	STEL (Short Terr Skin designation	n Exposure Limit)
Agency for Toxic S U.S. Environmenta European Food Sa EPA (Environment Acute Exposure Go U.S. Environmenta U.S. Environmenta Food Research Joo Hazardous Substa International Unifor National Institute o Australia National In NIOSH (National In National Library of National Library of National Toxicolog New Zealand's Che Organization for Edu	nce Database rm Chemical Information Databa f Technology and Evaluation (NI Industrial Chemicals Notification Institute for Occupational Safety a Medicine's ChemID Plus (NLM (Medicine's PubMed database (N	(ATSDR) Database ecticide, Fungicide, and R ction Volume Chemicals se (IUCLID) TE) and Assessment Scheme ind Health) CIP) ILM PUBMED) ation Database (CCID) opment Environment, He	odenticide Act (NICNAS) alth, and Safety Publication	

Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date Revision Note <u>Disclaimer</u> 13-Sep-2022

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET

AMACO EST. 1919 brent

Revision Number 1

Revision date 13-Sep-2022

1. Identification	
Product identifier	
Product Name	LG-26 Turquoise
Other means of identification	
Product Code(s)	FG00233
Synonyms	39148W
Recommended use of the chemical	and restrictions on use
Recommended use	
Restrictions on use	
Details of the supplier of the safety	data sheet
Manufacturer Address American Art Clay Co Inc 6060 Guion Road Indianapolis, IN 46254-1222 USA Toll Free: 1-800-999-5456 CustomerCare@Amaco.com	
Emergency telephone number	
Emergency Telephone	U.S. Poison Control 1-800-222-1222

2. Hazard(s) identification

Classification

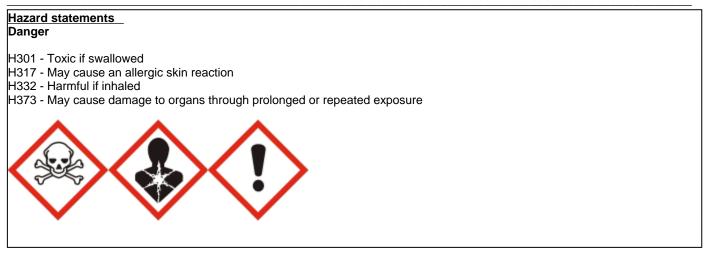
Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1
Specific target organ toxicity (repeated exposure)	Category 2

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

FG00233 - LG-26 Turquoise



Physical state Liquid

Precautionary Statements - Prevention Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Contaminated work clothing must not be allowed out of the workplace Wear protective gloves/clothing and eye/face protection Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

Specific treatment (see .? on this label) Get medical advice/attention if you feel unwell IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown acute toxicity

3.04075 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
3.04075 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
47.79075 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
47.79075 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
6.04075 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Other information

May be harmful in contact with skin. Toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

3. Composition/information on ingredients

Not applicable.

<u>Mixture</u>

Chemical name	CAS No	Weight-%
Frits, chemicals	65997-18-4	40 - 60
Kaolin	1332-58-7	3 - <5
Copper(II) carbonate hydroxide	12069-69-1	1 - <3
Copper oxide (CuO)	1317-38-0	0.1 - 1

	1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol	4719-04-4	0.1 - 1
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4. First-aid measures Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.	
Inhalation	Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.	
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.	

5. Fire-fighting measures

Suitable Extinguishing Media Large Fire	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.
Explosion data Sensitivity to mechanical impac	t None.
Sensitivity to static discharge	None.
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.
Other information	Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Frits, chemicals	STEL: 10 mg/m ³ Zr	TWA: 10 µg/m³ As	IDLH: 5 mg/m ³ As
65997-18-4	TWA: 0.01 mg/m ³ As	TWA: 50 µg/m ³ Pb	IDLH: 9 mg/m ³ Cd dust and
	TWA: 0.05 mg/m ³ Pb	TWA: 0.5 mg/m ³ Sb	fume
	TWA: 0.01 mg/m ³ Cd	TWA: 5 mg/m ³ Zr	IDLH: 50 mg/m ³ Sb
	TWA: 0.002 mg/m ³ Cd	(vacated) TWA: 0.5 mg/m ³ Sb	IDLH: 100 mg/m ³ Cu dust and
	respirable particulate matter	(vacated) TWA: 5 mg/m ³ Zr	mist
	TWA: 0.5 mg/m ³ Sb	(vacated) STEL: 10 mg/m ³ Zr	IDLH: 500 mg/m ³ Mn
	TWA: 1 mg/m ³ Cu dust and mist	(vacated) Ceiling: 5 mg/m ³	IDLH: 25 mg/m ³ Zr
	TWA: 3 mg/m ³ W respirable	Ceiling: 5 mg/m ³ Mn	IDLH: 100 mg/m ³ Pb
	particulate matter in the absence		IDLH: 10 mg/m ³ Ni
	of cobalt		Ceiling: 0.002 mg/m ³ As 15 min
	TWA: 5 mg/m ³ Zr		Ceiling: 0.05 mg/m ³ V dust and
	TWA: 0.02 mg/m ³ Mn respirable		fume 15 min
	particulate matter		TWA: 0.5 mg/m ³ Sb
	TWA: 0.1 mg/m ³ Mn inhalable		TWA: 1 mg/m ³ Cu dust and
	particulate matter		mist
			TWA: 1 mg/m ³ Mn
			TWA: 5 mg/m ³ except Zirconium
			tetrachloride Zr
			TWA: 0.050 mg/m ³ Pb
			TWA: 0.015 mg/m ³ except
			Nickel carbonyl Ni
			STEL: 3 mg/m ³ Mn
			STEL: 10 mg/m ³ Zr
Kaolin	TWA: 2 mg/m ³ particulate	TWA: 15 mg/m ³ total dust	TWA: 10 mg/m ³ total dust
1332-58-7	matter containing no asbestos	TWA: 5 mg/m ³ respirable	TWA: 5 mg/m ³ respirable dust
	and <1% crystalline silica,	fraction	
	respirable particulate matter	(vacated) TWA: 10 mg/m ³ total	

		dust (vacated) TWA: 5 mg/m ³ respirable fraction	
Copper(II) carbonate hydroxide 12069-69-1	TWA: 1 mg/m ³ Cu dust and mist	-	IDLH: 100 mg/m ³ Cu dust and mist TWA: 1 mg/m ³ Cu dust and mist
Copper oxide (CuO) 1317-38-0	TWA: 1 mg/m ³ Cu dust and mist	-	IDLH: 100 mg/m³ Cu dust and mist TWA: 0.1 mg/m³ Cu fume

Biological occupational exposure limits

Chemical name	ACGIH
Frits, chemicals	200 μg/L - blood (Lead) - not critical
65997-18-4	5 μg/g creatinine - urine (Cadmium) - not critical
	5 µg/L - blood (Cadmium) - not critical

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, such	ch as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves.
Skin and body protection Respiratory protection	Wear suitable protective clothing. No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product.

9. Physical and chemical properties

Information on basic physical and chemical properties				
Physical state	Liquid			
Appearance				
Color				
Odor				
Odor threshold				

Property_	<u>Values</u>	Remarks • Method
pH	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling rang	eNo data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known

FG00233 - LG-26 Turquoise

Water solubility Solubility(ies) Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity	No data available No data available No data available 410 No data available	None known None known None known None known None known None known
Dynamic viscosity <u>Other information</u> Explosive properties	No data available	None known
Oxidizing properties VOC Content (%)	No information available No information available	

10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Excessive heat.
Incompatible materials	None known based on information supplied.
	News loss of the sector information and the

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information			
Inhalation	Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).		
Eye contact	Specific test data for the substance or mixture is not available.		
Skin contact	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May be harmful in contact with skin.		
Ingestion	Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components).		
Symptoms related to the physical, chemical and toxicological characteristics			
Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing.		
Acute toxicity			
Numerical measures of toxicity No information available			
The following values are calculated ATEmix (oral) ATEmix (dermal) ATEmix (inhalation-dust/mist)	a based on chapter 3.1 of the GHS document 243.80 mg/kg 4,656.60 mg/kg 3.59 mg/l		
Unknown acute toxicity			

3.04075 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 3.04075 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity 47.79075 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 47.79075 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 6.04075 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Frits, chemicals	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
65997-18-4			
Kaolin	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
1332-58-7			
Copper(II) carbonate hydroxide	= 1350 mg/kg (Rat)	> 2000 mg/kg (Rat)	= 1.2 mg/L (Rat)4 h
12069-69-1	= 1495 mg/kg (Rat)		
Copper oxide (CuO)	-	> 2000 mg/kg (Rat)	-
1317-38-0			
1,3,5-Triazine-1,3,5(2H,4H,6H)-t	= 763 mg/kg (Rat)	> 4000 mg/kg (Rat)	= 0.4 mg/L (Rat) 4 h
riethanol			= 0.338 mg/L (Rat)4 h
4719-04-4			

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	No information available.

Carcinogenicity

No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Frits, chemicals	A1	Group 1	Known	Х
65997-18-4	A3	Group 2B	Reasonably Anticipated	
	A2	Group 2A		

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

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NTP (National Toxicology Program)
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Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity	No information available.		
STOT - single exposure	No information available.		
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.		

Target organ effects	Liver, Kidney, Respiratory system, Eyes, Skin, Central nervous system, Blood, Central Vascular System (CVS), Lungs, Nasal Cavities, Lymphatic System, prostate, Gastrointestinal tract (GI).
Aspiration hazard	No information available.
Other adverse effects	
Interactive effects	

12. Ecological information

Ecotoxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
1,3,5-Triazine-1,3,5(2H,4	-	LC50: =16.07mg/L (96h,	-	-
H,6H)-triethanol		Danio rerio)		
4719-04-4				

Persistence and degradability

Bioaccumulation	There is no data for this product.

Other adverse effects

No information available.

13. Disposal considerations			
<u>Disposal methods</u>			
Waste from residues/unused products	Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.		
Contaminated packaging	Do not reuse empty containers.		
California Hazardous Waste Status	This product contains one or more substances that are listed with the State of California as a hazardous waste.		
14. Transport information			

DOT

Not regulated

UN number or ID number UN3082 Packing group III

15. Regulatory information

International Inventories

TSCA

Contact supplier for inventory compliance status.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Water	7732-18-5	Present	Active
Frits, chemicals	65997-18-4	Present	Active
Kaolin	1332-58-7	Present	Active
Nepheline syenite	37244-96-5	-	Unknown *
Copper(II) carbonate hydroxide	12069-69-1	Present	Active
Copper oxide (CuO)	1317-38-0	Present	Active
Smectite-group minerals	12199-37-0	Present	Active
Sodium carboxymethyl cellulose	9004-32-4	Present	Active
1,3,5-Triazine-1,3,5(2H,4H,6H)-trietha nol	4719-04-4	Present	Active
Copper(I) oxide	1317-39-1	Present	Active
Ethanolamine	141-43-5	Present	Active

*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

DSL/NDSL EINECS/ELINCS	Contact supplier for inventory compliance status. Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIoC	Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Frits, chemicals - 65997-18-4	0.1
	1.0
Copper(II) carbonate hydroxide - 12069-69-1	1.0
Copper oxide (CuO) - 1317-38-0	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name CWA - Reportable CWA - Toxic Po	ollutants CWA - Priority Pollutants CWA - Hazardous
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FG00233 - LG-26 Turquoise

	Quantities			Substances
Frits, chemicals 65997-18-4	-	Х	-	-
Copper(II) carbonate hydroxide 12069-69-1	-	Х	-	-
Copper oxide (CuO) 1317-38-0	-	Х	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5	-	-	Х
Frits, chemicals 65997-18-4	Х	-	Х
Kaolin 1332-58-7	Х	X	Х
Copper(II) carbonate hydroxide 12069-69-1	Х	-	Х
Copper oxide (CuO) 1317-38-0	Х	-	Х
Copper(I) oxide 1317-39-1	Х	-	Х
Ethanolamine 141-43-5	Х	Х	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information				
<u>NFPA</u> HMIS	Health hazards 2 Health hazards 2 *	Flammability 0 Flammability 0	Instability 0 Physical hazards 0	Special hazards - Personal protection X
	abbreviations and acronyms		heet	
•	8: Exposure controls/persona		STEL (Short Torm	Exposure Limit)
TWA Ceiling	TWA (time-weighted average) Maximum limit value	STEL *	STEL (Short Term Skin designation	
Agency for Toxic S U.S. Environmenta European Food Sa EPA (Environmenta Acute Exposure G U.S. Environmenta U.S. Environmenta Food Research Jo Hazardous Substa		ry (ATSDR) Database secticide, Fungicide, and R action Volume Chemicals		

International Uniform Chemical Information Database (IUCLID)

FG00233 - LG-26 Turquoise

National Institute of Technology and Evaluation (NITE) Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date13-Sep-2022Revision NoteDisclaimerDisclaimerThe information provided in this Safety Data Sheet

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End of Safety Data Sheet

SAFETY DATA SHEET



Revision Number 1

Revision date 13-Sep-2022

1. Identification	
Product identifier	
Product Name	LG-30 Chocolate Brown
Other means of identification	
Product Code(s)	FG00235
Synonyms	38493K
Recommended use of the chemical	and restrictions on use
Recommended use	
Restrictions on use	
Details of the supplier of the safety	data sheet
Manufacturer Address American Art Clay Co Inc 6060 Guion Road Indianapolis, IN 46254-1222 USA Toll Free: 1-800-999-5456 CustomerCare@Amaco.com	
Emergency telephone number	
Emergency Telephone	U.S. Poison Control 1-800-222-1222

2. Hazard(s) identification

Classification

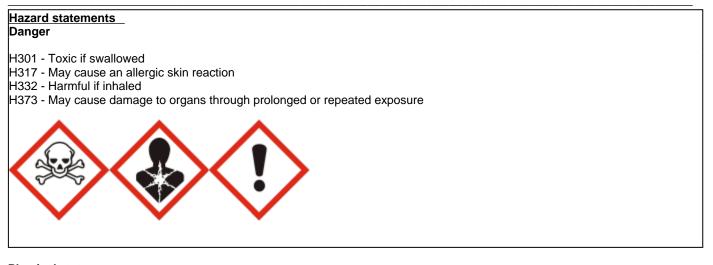
Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1
Specific target organ toxicity (repeated exposure)	Category 2

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

FG00235 - LG-30 Chocolate Brown



Physical state Liquid

Precautionary Statements - Prevention Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Contaminated work clothing must not be allowed out of the workplace Wear protective gloves/clothing and eye/face protection Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

Specific treatment (see .? on this label) Get medical advice/attention if you feel unwell IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown acute toxicity

1.237 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
1.237 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
48.067 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
48.067 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
6.217 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Other information

May be harmful in contact with skin. Toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

3. Composition/information on ingredients

Not applicable.

<u>Mixture</u>

Chemical name	CAS No	Weight-%
Frits, chemicals	65997-18-4	40 - 60
Kaolin	1332-58-7	3 - <5
C.I. Pigment Brown 33	68186-88-9	1 - <3
1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol	4719-04-4	0.1 - 1

4. First-aid measures

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.		
Inhalation	Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.		
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.		
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.		
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.		
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.		
Most important symptoms and effe	cts, both acute and delayed		
Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.		
Indication of any immediate medica	attention and special treatment needed		
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.		

5. Fire-fighting measures

Suitable Extinguishing Media Large Fire	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.
Explosion data Sensitivity to mechanical impac	t None.
Sensitivity to static discharge	None.
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.
Other information	Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Pick up and transfer to properly labeled containers.	

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Frits, chemicals	STEL: 10 mg/m ³ Zr	TWA: 10 µg/m³ As	IDLH: 5 mg/m ³ As
65997-18-4	TWA: 0.01 mg/m ³ As	TWA: 50 µg/m ³ Pb	IDLH: 9 mg/m ³ Cd dust and
	TWA: 0.05 mg/m ³ Pb	TWA: 0.5 mg/m ³ Sb	fume
	TWA: 0.01 mg/m ³ Cd	TWA: 5 mg/m ³ Zr	IDLH: 50 mg/m ³ Sb
	TWA: 0.002 mg/m ³ Cd	(vacated) TWA: 0.5 mg/m ³ Sb	IDLH: 100 mg/m ³ Cu dust and
	respirable particulate matter	(vacated) TWA: 5 mg/m ³ Zr	mist
	TWA: 0.5 mg/m ³ Sb	(vacated) STEL: 10 mg/m ³ Zr	IDLH: 500 mg/m ³ Mn
	TWA: 1 mg/m ³ Cu dust and mist	(vacated) Ceiling: 5 mg/m ³	IDLH: 25 mg/m ³ Zr
	TWA: 3 mg/m ³ W respirable	Ceiling: 5 mg/m ³ Mn	IDLH: 100 mg/m ³ Pb
	particulate matter in the absence		IDLH: 10 mg/m ³ Ni
	of cobalt		Ceiling: 0.002 mg/m ³ As 15 min
	TWA: 5 mg/m³ Zr		Ceiling: 0.05 mg/m ³ V dust and
	TWA: 0.02 mg/m ³ Mn respirable		fume 15 min
	particulate matter		TWA: 0.5 mg/m ³ Sb
	TWA: 0.1 mg/m ³ Mn inhalable		TWA: 1 mg/m ³ Cu dust and
	particulate matter		mist
			TWA: 1 mg/m ³ Mn
			TWA: 5 mg/m ³ except Zirconium
			tetrachloride Zr
			TWA: 0.050 mg/m ³ Pb
			TWA: 0.015 mg/m ³ except
			Nickel carbonyl Ni
			STEL: 3 mg/m ³ Mn
			STEL: 10 mg/m ³ Zr
Kaolin	TWA: 2 mg/m ³ particulate	TWA: 15 mg/m ³ total dust	TWA: 10 mg/m ³ total dust
1332-58-7	matter containing no asbestos	TWA: 5 mg/m ³ respirable	TWA: 5 mg/m ³ respirable dust
	and <1% crystalline silica,	fraction	
	respirable particulate matter	(vacated) TWA: 10 mg/m ³ total	

		dust (vacated) TWA: 5 mg/m ³ respirable fraction	
C.I. Pigment Brown 33	-	TWA: 0.5 mg/m ³ Cr	IDLH: 25 mg/m ³ Cr(III)
68186-88-9		(vacated) TWA: 0.5 mg/m ³ Cr	TWA: 0.5 mg/m ³ Cr

Biological occupational exposure limits

Chemical name	ACGIH
Frits, chemicals	200 μg/L - blood (Lead) - not critical
65997-18-4	5 µg/g creatinine - urine (Cadmium) - not critical
	5 µg/L - blood (Cadmium) - not critical

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product.

9. Physical and chemical properties

limits Vapor pressure

Relative vapor density

Relative density

Water solubility

Partition coefficient

Autoignition temperature

Decomposition temperature

Solubility(ies)

Information on basic physical and o		
Physical state	Liquid	
Appearance		
Color		
Odor		
Odor threshold		
Property_	Values	Remarks • Method
рН	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling rang	eNo data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	

No data available

392.78

None known None known None known None known None known None known None known

Kinematic viscosity Dynamic viscosity	No data available No data available	None known None known
Other information Explosive properties Oxidizing properties VOC Content (%)	No information available No information available No information available	
10. Stability and reactivity		
Reactivity	No information available.	
Chemical stability	Stable under normal conditions.	
Possibility of hazardous reactions	None under normal processing.	
Conditions to avoid	Excessive heat.	
Incompatible materials	None known based on information	supplied.
Hazardous decomposition products None known based on information supplied.		

11. Toxicological information

Information on likely routes of exposure

Product Information

Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).				
Specific test data for the se	ubstance or mixture is not availab	ble.		
not available. Repeated or	prolonged skin contact may cau	se allergic reactions with		
Specific test data for the su components).	ubstance or mixture is not availab	ele. Toxic if swallowed. (based on		
chemical and toxicologica	I characteristics			
Itching. Rashes. Hives. Co	oughing and/ or wheezing.			
	he GHS document			
3.58 mg/l				
 Unknown acute toxicity 1.237 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 1.237 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity 48.067 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 48.067 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 6.217 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist) 				
Oral LD50	Dermal LD50	Inhalation LC50		
	on components). Specific test data for the si May cause sensitization by not available. Repeated or susceptible persons. (base Specific test data for the si components). chemical and toxicological Itching. Rashes. Hives. Co I based on chapter 3.1 of th 238.40 mg/kg 4,561.80 mg/kg 3.58 mg/l f ingredient(s) of unknown ac of ingredient(s) of unknown ac f ingredient(s) of unknown ac	on components). Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cau susceptible persons. (based on components). May be harm Specific test data for the substance or mixture is not available components). chemical and toxicological characteristics Itching. Rashes. Hives. Coughing and/ or wheezing. the based on chapter 3.1 of the GHS document 238.40 mg/kg 4,561.80 mg/kg 3.58 mg/l f ingredient(s) of unknown acute oral toxicity f ingredient(s) of unknown acute inhalation toxicity (gas) of ingredient(s) of unknown acute inhalation toxicity (vapor) f ingredient(s) of unknown acute inhalation toxicity (dust/mist)		

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Frits, chemicals 65997-18-4	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Kaolin 1332-58-7	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
C.I. Pigment Brown 33 68186-88-9	-	-	> 5.06 mg/L (Rat)4 h
1,3,5-Triazine-1,3,5(2H,4H,6H)-t riethanol 4719-04-4	= 763 mg/kg (Rat)	> 4000 mg/kg (Rat)	= 0.4 mg/L (Rat)4 h = 0.338 mg/L (Rat)4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	No information available.

Carcinogenicity

No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Frits, chemicals	A1	Group 1	Known	Х
65997-18-4	A3	Group 2B	Reasonably Anticipated	
	A2	Group 2A		
C.I. Pigment Brown 33 68186-88-9	-	Group 3	-	-
00100 00 0				

Legend

ACGIH (American Conference of Governmental Industrial Hygienists) A1 - Known Human Carcinogen A2 - Suspected Human Carcinogen A3 - Animal Carcinogen IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans Group 3 - Not Classifiable as to Carcinogenicity in Humans NTP (National Toxicology Program) Known - Known Carcinogen Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present Penroductive toxicity No information available

STOT - single exposure	No information available.
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Target organ effects	Liver, Kidney, Respiratory system, Eyes, Skin, Central nervous system, Blood, Central Vascular System (CVS), Lungs, Nasal Cavities, Lymphatic System, prostate, Gastrointestinal tract (GI).

Aspiration hazard

No information available.

Other adverse effects

Interactive effects

12. Ecological information

Ecotoxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
1,3,5-Triazine-1,3,5(2H,4 H,6H)-triethanol	-	LC50: =16.07mg/L (96h, Danio rerio)	-	-
4719-04-4		,		

Persistence and degradability

Bioaccumulation	There is no data for this product.
Other adverse effects	No information available.

13. Disposal considerations		
Disposal methods		
Waste from residues/unused products	Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.	
Contaminated packaging	Do not reuse empty containers.	
California Hazardous Waste Status	This product contains one or more substances that are listed with the State of California as a hazardous waste.	

14. Transport information

DOT

Not regulated

UN number or ID number	UN3082
Packing group	111

15. Regulatory information

International Inventories

TSCA

Contact supplier for inventory compliance status.

FG00235 - LG-30 Chocolate Brown

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Water	7732-18-5	Present	Active
Frits, chemicals	65997-18-4	Present	Active
Kaolin	1332-58-7	Present	Active
C.I. Pigment Brown 33	68186-88-9	Present	Active
1,2,3-Propanetriol	56-81-5	Present	Active
Smectite-group minerals	12199-37-0	Present	Active
Sodium carboxymethyl cellulose	9004-32-4	Present	Active
1,3,5-Triazine-1,3,5(2H,4H,6H)-trietha nol	4719-04-4	Present	Active
D-gluco-Heptonic acid, monosodium salt, (2.xi.)-	31138-65-5	Present	Active
Ethanolamine	141-43-5	Present	Active

DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIoC	Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Frits, chemicals - 65997-18-4	0.1
	1.0
C.I. Pigment Brown 33 - 68186-88-9	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Frits, chemicals 65997-18-4	-	Х	-	-
C.I. Pigment Brown 33 68186-88-9	-	Х	-	-

FG00235 - LG-30 Chocolate Brown

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5	-	-	Х
Frits, chemicals 65997-18-4	Х	-	Х
Kaolin 1332-58-7	Х	X	Х
C.I. Pigment Brown 33 68186-88-9	Х	-	Х
1,2,3-Propanetriol 56-81-5	Х	X	Х
Ethanolamine 141-43-5	Х	X	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information					
NFPA HMIS	Health hazards 2 Health hazards 2 *	Flammability Flammability		Instability 0 Physical hazards 0	Special hazards - Personal protection X
	abbreviations and acronym 8: Exposure controls/perso TWA (time-weighted averag Maximum limit value	nal protection	t y data sh STEL	<u>eet</u> STEL (Short Terr Skin designation	n Exposure Limit)
Agency for Toxic S U.S. Environmenta European Food Sa EPA (Environmenta Acute Exposure G U.S. Environmenta V.S. Environmenta Food Research Jo Hazardous Substa International Unifo National Institute of Australia National NIOSH (National I National Library of National Library of National Toxicolog New Zealand's Ch Organization for E	Ince Database rm Chemical Information Dat of Technology and Evaluation Industrial Chemicals Notificat Institute for Occupational Safe Medicine's ChemID Plus (NI Medicine's PubMed databas y Program (NTP) emical Classification and Info conomic Co-operation and D conomic Co-operation and D	istry (ATSDR) ew Database Insecticide, Fungici oduction Volume Ch abase (IUCLID) (NITE) tion and Assessmen ety and Health) M CIP) se (NLM PUBMED) ormation Database evelopment Enviror evelopment High Pu	de, and Ro nemicals nt Scheme (CCID) nment, Hea roduction V	(NICNAS) Ith, and Safety Publication	
Revision date	13-Sen-	2022			

Revision date

13-Sep-2022

Revision Note

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET

AMACO EST. 1919 brent

Revision Number 1

Revision date 13-Sep-2022

1. Identification	
Product identifier	
Product Name	LG-48 Chrome Green
Other means of identification	
Product Code(s)	FG00245
Synonyms	38501T, 38520S
Recommended use of the chemical	and restrictions on use
Recommended use	
Restrictions on use	
Details of the supplier of the safety	data sheet
Manufacturer Address American Art Clay Co Inc 6060 Guion Road Indianapolis, IN 46254-1222 USA Toll Free: 1-800-999-5456 CustomerCare@Amaco.com	
Emergency telephone number	
Emergency Telephone	U.S. Poison Control 1-800-222-1222

2. Hazard(s) identification

Classification

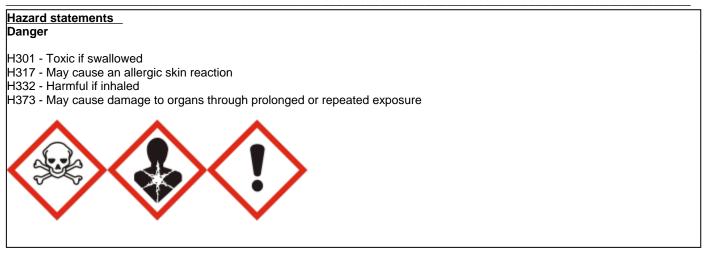
Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1
Specific target organ toxicity (repeated exposure)	Category 2

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

FG00245 - LG-48 Chrome Green



Physical state Liquid

Precautionary Statements - Prevention Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Contaminated work clothing must not be allowed out of the workplace Wear protective gloves/clothing and eye/face protection Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

Specific treatment (see .? on this label) Get medical advice/attention if you feel unwell IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown acute toxicity

1.61885 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
4.21885 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
51.11885 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
51.11885 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
9.42885 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Other information

May be harmful in contact with skin. Toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

3. Composition/information on ingredients

Not applicable.

Mixture

Chemical name	CAS No	Weight-%
Frits, chemicals	65997-18-4	40 - 60
Kaolin	1332-58-7	5 - <10
Calcium fluoride (CaF2)	7789-75-5	1 - <3
Hematite, chromium green black	68909-79-5	1 - <3

1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol 4719-04-4 0.1 - 1	1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol
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4. First-aid measures

Description of first aid measures		
General advice	Show this safety data sheet to the doctor in attendance.	
Inhalation	Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.	
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.	

5. Fire-fighting measures

Suitable Extinguishing Media Large Fire	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Unsultable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.
Explosion data Sensitivity to mechanical impac	t None.
Sensitivity to static discharge	None.
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.
Other information	Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Frits, chemicals	STEL: 10 mg/m ³ Zr	TWA: 10 µg/m³ As	IDLH: 5 mg/m ³ As
65997-18-4	TWA: 0.01 mg/m ³ As	TWA: 50 µg/m ³ Pb	IDLH: 9 mg/m ³ Cd dust and
	TWA: 0.05 mg/m ³ Pb	TWA: 0.5 mg/m ³ Sb	fume
	TWA: 0.01 mg/m ³ Cd	TWA: 5 mg/m ³ Zr	IDLH: 50 mg/m ³ Sb
	TWA: 0.002 mg/m ³ Cd	(vacated) TWA: 0.5 mg/m ³ Sb	IDLH: 100 mg/m ³ Cu dust and
	respirable particulate matter	(vacated) TWA: 5 mg/m ³ Zr	mist
	TWA: 0.5 mg/m ³ Sb	(vacated) STEL: 10 mg/m ³ Zr	IDLH: 500 mg/m ³ Mn
	TWA: 1 mg/m ³ Cu dust and mist	(vacated) Ceiling: 5 mg/m ³	IDLH: 25 mg/m ³ Zr
	TWA: 3 mg/m ³ W respirable	Ceiling: 5 mg/m ³ Mn	IDLH: 100 mg/m ³ Pb
	particulate matter in the absence		IDLH: 10 mg/m ³ Ni
	of cobalt		Ceiling: 0.002 mg/m ³ As 15 min
	TWA: 5 mg/m ³ Zr		Ceiling: 0.05 mg/m ³ V dust and
	TWA: 0.02 mg/m ³ Mn respirable		fume 15 min
	particulate matter		TWA: 0.5 mg/m ³ Sb
	TWA: 0.1 mg/m ³ Mn inhalable		TWA: 1 mg/m ³ Cu dust and
	particulate matter		mist
			TWA: 1 mg/m³ Mn
			TWA: 5 mg/m ³ except Zirconium
			tetrachloride Zr
			TWA: 0.050 mg/m ³ Pb
			TWA: 0.015 mg/m ³ except
			Nickel carbonyl Ni
			STEL: 3 mg/m ³ Mn
			STEL: 10 mg/m ³ Zr
Kaolin	TWA: 2 mg/m ³ particulate	TWA: 15 mg/m ³ total dust	TWA: 10 mg/m ³ total dust
1332-58-7	matter containing no asbestos	TWA: 5 mg/m ³ respirable	TWA: 5 mg/m ³ respirable dust
	and <1% crystalline silica,	fraction	
	respirable particulate matter	(vacated) TWA: 10 mg/m ³ total	

		dust (vacated) TWA: 5 mg/m ³ respirable fraction	
Calcium fluoride (CaF2)	TWA: 2.5 mg/m ³ F	TWA: 2.5 mg/m ³ F	IDLH: 250 mg/m ³ F
7789-75-5		(vacated) TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³ F
Hematite, chromium green black	-	TWA: 0.5 mg/m ³ Cr	IDLH: 25 mg/m ³ Cr(III)
68909-79-5		(vacated) TWA: 0.5 mg/m ³ Cr	TWA: 0.5 mg/m ³ Cr

Biological occupational exposure limits

Chemical name	ACGIH
65997-18-4	200 μg/L - blood (Lead) - not critical 5 μg/g creatinine - urine (Cadmium) - not critical 5 μg/L - blood (Cadmium) - not critical
	2 mg/L - urine (Fluoride) - prior to shift 3 mg/L - urine (Fluoride) - end of shift

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product.

9. Physical and chemical properties

Information on basic physical and chemical properties
Physical state Liquid
Appearance
Color
Odor
Odor
Odor threshold

Property		Remarks • Method
рН	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	eNo data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known

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Solubility(ies)	No data available	None known	
Partition coefficient	No data available	None known	
Autoignition temperature	410	None known	
Decomposition temperature		None known	
Kinematic viscosity	No data available	None known	
Dynamic viscosity	No data available	None known	
Other information			
Explosive properties	No information available		
Oxidizing properties	No information available		
VOC Content (%)	No information available		

10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Excessive heat.
Incompatible materials	None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).	
Eye contact	Specific test data for the substance or mixture is not available.	
Skin contact	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May be harmful in contact with skin.	
Ingestion	Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components).	
Symptoms related to the physical, chemical and toxicological characteristics		
Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing.	
Acute toxicity		
Numerical measures of toxicity No information available		
The following values are calculated ATEmix (oral) ATEmix (dermal) ATEmix (inhalation-dust/mist)	l based on chapter 3.1 of the GHS document 238.90 mg/kg 4,568.90 mg/kg 3.60 mg/l	
Unknown acute toxicity 1.61885 % of the mixture consists of ingredient(s) of unknown acute oral toxicity		

1.61885 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
4.21885 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
51.11885 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
51.11885 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

9.42885 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Frits, chemicals 65997-18-4	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Kaolin 1332-58-7	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Calcium fluoride (CaF2) 7789-75-5	= 4250 mg/kg(Rat)	-	> 5070 mg/m³(Rat)4 h
Hematite, chromium green black 68909-79-5	-	-	> 5.14 mg/L (Rat)4 h
1,3,5-Triazine-1,3,5(2H,4H,6H)-t riethanol 4719-04-4	= 763 mg/kg (Rat)	> 4000 mg/kg (Rat)	= 0.4 mg/L (Rat)4 h = 0.338 mg/L (Rat)4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	No information available.

Carcinogenicity No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen

The table below indicates whether each agency has listed any ingredient as a caroinogen.				
Chemical name	ACGIH	IARC	NTP	OSHA
Frits, chemicals	A1	Group 1	Known	Х
65997-18-4	A3	Group 2B	Reasonably Anticipated	
	A2	Group 2A		
Calcium fluoride (CaF2)	-	Group 3	-	-
7789-75-5				
Hematite, chromium	-	Group 3	-	-
green black				
68909-79-5				

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity

No information available.

STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Target organ effects	Liver, Kidney, Respiratory system, Eyes, Skin, Central nervous system, Blood, Central Vascular System (CVS), Lungs, Nasal Cavities, Lymphatic System, prostate, Gastrointestinal tract (GI).
Aspiration hazard	No information available.
Other adverse effects	
Interactive effects	

12. Ecological information

Ecotoxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
1,3,5-Triazine-1,3,5(2H,4 H,6H)-triethanol	-	LC50: =16.07mg/L (96h, Danio rerio)	-	-
4719-04-4				

Persistence and degradability

Bioaccumulation	There is no data for this product.
Other adverse effects	No information available.

13. Disposal considerations

Disposal methods

Waste from residues/unused products	Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.
Contaminated packaging	Do not reuse empty containers.
California Hazardous Waste Status	This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. Transport information

DOT

Not regulated

UN number or ID number	UN3082
Packing group	

15. Regulatory information

International Inventories

TSCA

Contact supplier for inventory compliance status.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Water	7732-18-5	Present	Active
Frits, chemicals	65997-18-4	Present	Active
Kaolin	1332-58-7	Present	Active
Calcium fluoride (CaF2)	7789-75-5	Present	Active
Hematite, chromium green black	68909-79-5	Present	Active
Sodium carboxymethyl cellulose	9004-32-4	Present	Active
Smectite-group minerals	12199-37-0	Present	Active
1,3,5-Triazine-1,3,5(2H,4H,6H)-trietha	4719-04-4	Present	Active
nol			
Ethanolamine	141-43-5	Present	Active

DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIOC	Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Frits, chemicals - 65997-18-4	0.1
	1.0
Hematite, chromium green black - 68909-79-5	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous
	Quantities			Substances

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Frits, chemicals 65997-18-4	-	Х	-	-
Hematite, chromium green black 68909-79-5	-	Х	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water	-	-	Х
7732-18-5 Frits, chemicals	X	_	×
65997-18-4	X	-	X
Kaolin	Х	Х	Х
1332-58-7			
Calcium fluoride (CaF2) 7789-75-5	Х	-	-
Hematite, chromium green black 68909-79-5	Х	-	Х
Ethanolamine 141-43-5	Х	Х	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information					
<u>NFPA</u> HMIS	Health hazards 2 Health hazards 2 *	Flammability Flammability		Instability 0 Physical hazards 0	Special hazards - Personal protection X
Legend Section	abbreviations and acronyms 8: Exposure controls/person	al protection	-		
TWA Ceiling	TWA (time-weighted average Maximum limit value)	STEL	STEL (Short Term Skin designation	Exposure Limit)
Agency for Toxic S U.S. Environmenta European Food Sa EPA (Environmenta Acute Exposure G U.S. Environmenta U.S. Environmenta Food Research Jo Hazardous Substa International Unifo National Institute of Australia National NIOSH (National I National Library of	, and the second s	try (ATSDR) w Database esecticide, Fungici luction Volume Ch base (IUCLID) NITE) on and Assessmer / and Health) 4 CIP)	de, and Rc nemicals		

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date Revision Note <u>Disclaimer</u> 13-Sep-2022

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET



Revision Number 1

Revision date 13-Sep-2022

1. Identification	
Product identifier	
Product Name	LG-45 Emerald Green
Other means of identification	
Product Code(s)	FG00242
Synonyms	38500S
Recommended use of the chemica	l and restrictions on use
Recommended use	
Restrictions on use	
Details of the supplier of the safety	data sheet
Manufacturer Address American Art Clay Co Inc 6060 Guion Road Indianapolis, IN 46254-1222 USA Toll Free: 1-800-999-5456 CustomerCare@Amaco.com	
Emergency telephone number	
Emergency Telephone	U.S. Poison Control 1-800-222-1222

2. Hazard(s) identification

Classification

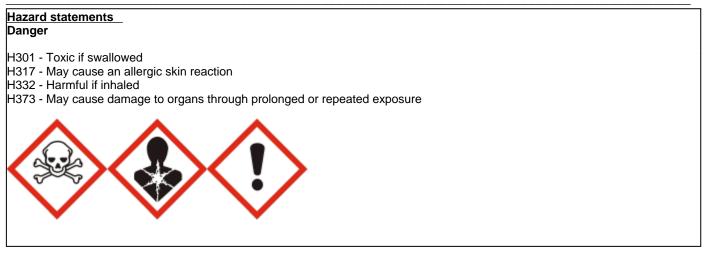
Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1
Specific target organ toxicity (repeated exposure)	Category 2

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

FG00242 - LG-45 Emerald Green



Physical state Liquid

Precautionary Statements - Prevention Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Contaminated work clothing must not be allowed out of the workplace

Wear protective gloves/clothing and eye/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

Specific treatment (see .? on this label) Get medical advice/attention if you feel unwell IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown acute toxicity

2.667 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
2.667 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
48.047 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
48.047 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
6.667 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Other information

May be harmful in contact with skin. Toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

3. Composition/information on ingredients

Not applicable.

Mixture

Chemical name	CAS No	Weight-%
Frits, chemicals	65997-18-4	40 - 60
Kaolin	1332-58-7	3 - <5
C.I. Pigment Blue 71	68186-95-8	1 - <3
C.I. Pigment Yellow 159	68187-15-5	1 - <3

1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol 4719-04-4 0.1 - 1	
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4. First-aid measures

Description of first aid measures		
General advice	Show this safety data sheet to the doctor in attendance.	
Inhalation	Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.	
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.	

5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.	
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.	
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.	
Explosion data Sensitivity to mechanical impac	t None.	
Sensitivity to static discharge	None.	
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.
Other information	Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Frits, chemicals	STEL: 10 mg/m ³ Zr	TWA: 10 µg/m³ As	IDLH: 5 mg/m ³ As
65997-18-4	TWA: 0.01 mg/m ³ As	TWA: 50 µg/m ³ Pb	IDLH: 9 mg/m ³ Cd dust and
	TWA: 0.05 mg/m ³ Pb	TWA: 0.5 mg/m ³ Sb	fume
	TWA: 0.01 mg/m ³ Cd	TWA: 5 mg/m ³ Zr	IDLH: 50 mg/m ³ Sb
	TWA: 0.002 mg/m ³ Cd	(vacated) TWA: 0.5 mg/m ³ Sb	IDLH: 100 mg/m ³ Cu dust and
	respirable particulate matter	(vacated) TWA: 5 mg/m ³ Zr	mist
	TWA: 0.5 mg/m ³ Sb	(vacated) STEL: 10 mg/m ³ Zr	IDLH: 500 mg/m ³ Mn
	TWA: 1 mg/m ³ Cu dust and mist	(vacated) Ceiling: 5 mg/m ³	IDLH: 25 mg/m ³ Zr
	TWA: 3 mg/m ³ W respirable	Ceiling: 5 mg/m ³ Mn	IDLH: 100 mg/m ³ Pb
	particulate matter in the absence		IDLH: 10 mg/m ³ Ni
	of cobalt		Ceiling: 0.002 mg/m ³ As 15 min
	TWA: 5 mg/m ³ Zr		Ceiling: 0.05 mg/m ³ V dust and
	TWA: 0.02 mg/m ³ Mn respirable		fume 15 min
	particulate matter		TWA: 0.5 mg/m ³ Sb
	TWA: 0.1 mg/m ³ Mn inhalable		TWA: 1 mg/m ³ Cu dust and
	particulate matter		mist
			TWA: 1 mg/m³ Mn
			TWA: 5 mg/m ³ except Zirconium
			tetrachloride Zr
			TWA: 0.050 mg/m ³ Pb
			TWA: 0.015 mg/m ³ except
			Nickel carbonyl Ni
			STEL: 3 mg/m ³ Mn
			STEL: 10 mg/m ³ Zr
Kaolin	TWA: 2 mg/m ³ particulate	TWA: 15 mg/m ³ total dust	TWA: 10 mg/m ³ total dust
1332-58-7	matter containing no asbestos	TWA: 5 mg/m ³ respirable	TWA: 5 mg/m ³ respirable dust
	and <1% crystalline silica,	fraction	
	respirable particulate matter	(vacated) TWA: 10 mg/m ³ total	

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		dust (vacated) TWA: 5 mg/m³ respirable fraction	
C.I. Pigment Blue 71 68186-95-8	STEL: 10 mg/m³ Zr TWA: 5 mg/m³ Zr	TWA: 5 mg/m³ Zr (vacated) TWA: 5 mg/m³ Zr (vacated) STEL: 10 mg/m³ Zr	IDLH: 25 mg/m ³ Zr Ceiling: 0.05 mg/m ³ V dust and fume 15 min TWA: 5 mg/m ³ except Zirconium tetrachloride Zr STEL: 10 mg/m ³ Zr
C.I. Pigment Yellow 159 68187-15-5	STEL: 10 mg/m³ Zr TWA: 5 mg/m³ Zr	TWA: 5 mg/m³ Zr (vacated) TWA: 5 mg/m³ Zr (vacated) STEL: 10 mg/m³ Zr	IDLH: 25 mg/m ³ Zr TWA: 5 mg/m ³ except Zirconium tetrachloride Zr STEL: 10 mg/m ³ Zr

Biological occupational exposure limits

Chemical name	ACGIH
Frits, chemicals	200 μg/L - blood (Lead) - not critical
65997-18-4	5 μg/g creatinine - urine (Cadmium) - not critical
	5 µg/L - blood (Cadmium) - not critical

Appropriate engineering controls

Engineering controls	Showers
	Eyewash stations
	Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product.

9. Physical and chemical properties

Information on basic physical and c Physical state Appearance Color Odor Odor threshold	hemical properties Liquid
Property_	Values
pH	No data available
Melting point / freezing point	No data available
Initial boiling point and boiling range	eNo data available
Flash point	No data available
Evaporation rate	No data available
Flammability	No data available
Flammability Limit in Air	
Upper flammability or explosive limits	No data available
Lower flammability or explosive limits	No data available

Remarks • Method

None known None known None known None known None known None known

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Vapor pressure Relative vapor density Relative density Water solubility Solubility(ies) Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity	No data available No data available No data available No data available No data available No data available 410	None known None known None known None known None known None known None known None known
Dynamic viscosity	No data available	None known
Other information Explosive properties Oxidizing properties VOC Content (%)	No information available No information available No information available	

10. Stability and reactivity

11. Toxicological information

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Excessive heat.
Incompatible materials	None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

Information on likely routes of expo	osure
Product Information	
Inhalation	Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May be harmful in contact with skin.
Ingestion	Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components).
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing.
Acute toxicity	
Numerical measures of toxicity No information available	
	based on chapter 3.1 of the GHS document
ATEmix (oral) ATEmix (dermal)	241.20 mg/kg 4,653.30 mg/kg
ATEmix (inhalation-dust/mist)	3.62 mg/l
University courts to visity	

Unknown acute toxicity

2.667 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
2.667 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
48.047 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
48.047 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

6.667 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Frits, chemicals 65997-18-4	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Kaolin 1332-58-7	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
C.I. Pigment Blue 71 68186-95-8	-	-	> 5.1 mg/L (Rat)4 h
C.I. Pigment Yellow 159 68187-15-5	-	-	> 5.5 mg/L (Rat)4 h
1,3,5-Triazine-1,3,5(2H,4H,6H)-t riethanol 4719-04-4	= 763 mg/kg (Rat)	> 4000 mg/kg (Rat)	= 0.4 mg/L (Rat)4 h = 0.338 mg/L (Rat)4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	No information available.

Carcinogenicity

No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Frits, chemicals	A1	Group 1	Known	Х
65997-18-4	A3	Group 2B	Reasonably Anticipated	
	A2	Group 2A		

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Target organ effects	Liver, Kidney, Respiratory system, Eyes, Skin, Central nervous system, Blood, Central Vascular System (CVS), Lungs, Nasal Cavities, Lymphatic System, prostate, Gastrointestinal tract (GI).
Aspiration hazard	No information available.
Other adverse effects	
Interactive effects	

12. Ecological information

Ecotoxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1,3,5-Triazine-1,3,5(2H,4 H,6H)-triethanol 4719-04-4	-	LC50: =16.07mg/L (96h, Danio rerio)	-	-

Persistence and degradability

Bioaccumulation	There is no data for this product.
Other adverse effects	No information available.

13. Disposal considerations				
Disposal methods				
Waste from residues/unused products	Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.			
Contaminated packaging	Do not reuse empty containers.			
California Hazardous Waste Status	This product contains one or more substances that are listed with the State of California as a hazardous waste.			

14. Transport information

DOT

Not regulated

UN number or ID numberUN3082Packing groupIII

International Inventories

TSCA

Contact supplier for inventory compliance status.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Water	7732-18-5	Present	Active
Frits, chemicals	65997-18-4	Present	Active
Kaolin	1332-58-7	Present	Active
C.I. Pigment Blue 71	68186-95-8	Present	Active
C.I. Pigment Yellow 159	68187-15-5	Present	Active
Smectite-group minerals	12199-37-0	Present	Active
Sodium carboxymethyl cellulose	9004-32-4	Present	Active
Zircon	14940-68-2	Present	Active
1,3,5-Triazine-1,3,5(2H,4H,6H)-trietha nol	4719-04-4	Present	Active
D-gluco-Heptonic acid, monosodium salt, (2.xi.)-	31138-65-5	Present	Active
Ethanolamine	141-43-5	Present	Active

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Frits, chemicals - 65997-18-4	0.1
	1.0
C.I. Pigment Blue 71 - 68186-95-8	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name CWA - Reportable CWA - Toxic Pollutants CWA - Priority Pollutants CWA - F	lazardous
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	Quantities			Substances
Frits, chemicals 65997-18-4	-	Х	-	-

<u>CERCLA</u>

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5	-	-	Х
Frits, chemicals 65997-18-4	Х	-	Х
Kaolin 1332-58-7	Х	X	Х
C.I. Pigment Blue 71 68186-95-8	Х	-	-
Ethanolamine 141-43-5	Х	Х	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information					
NFPA HMIS	Health hazards 2 Health hazards 2 *	Flammability 0 Flammability 0	Instability (Physical ha		Special hazards - Personal protection X
Legend Section 8: Ex TWA TWA	eviations and acronyms uposure controls/persona A (time-weighted average) kimum limit value		L STEL	(Short Term esignation	n Exposure Limit)
Agency for Toxic Substa U.S. Environmental Pro European Food Safety / EPA (Environmental Pro Acute Exposure Guideli U.S. Environmental Pro U.S. Environmental Pro Food Research Journal Hazardous Substance I International Uniform CI National Institute of Tec Australia National Indus NIOSH (National Institut National Library of Medi National Library of Medi National Toxicology Pro New Zealand's Chemica Organization for Econor	otection Agency) ine Level(s) (AEGL(s)) tection Agency Federal Ins tection Agency High Produ Database hemical Information Databa chnology and Evaluation (N strial Chemicals Notification te for Occupational Safety icine's ChemID Plus (NLM icine's PubMed database (y (ATSDR) Database eccticide, Fungicide, iction Volume Chem ase (IUCLID) ITE) and Assessment Si and Health) CIP) NLM PUBMED) ation Database (CC	and Rodenticide Act icals cheme (NICNAS) ID) nt, Health, and Safety		

Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date Revision Note <u>Disclaimer</u> 13-Sep-2022

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET

AMACO EST. 1919 brent

Revision Number 1

Revision date 13-Sep-2022

1. Identification	
Product identifier	
Product Name	LG-52 Petal Pink
Other means of identification	
Product Code(s)	FG00248
Synonyms	38519R. 39152B
Recommended use of the chemical	and restrictions on use
Recommended use	
Restrictions on use	
Details of the supplier of the safety	data sheet
Manufacturer Address American Art Clay Co Inc 6060 Guion Road Indianapolis, IN 46254-1222 USA Toll Free: 1-800-999-5456 CustomerCare@Amaco.com	
Emergency telephone number	
Emergency Telephone	U.S. Poison Control 1-800-222-1222

2. Hazard(s) identification

Classification

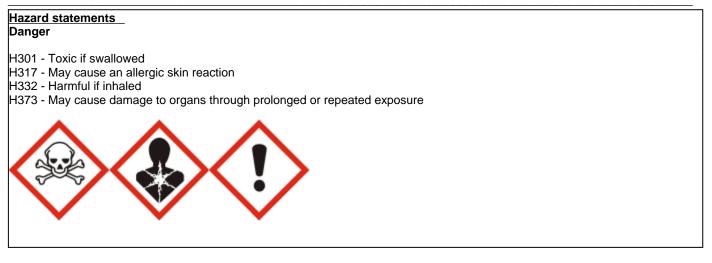
Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1
Specific target organ toxicity (repeated exposure)	Category 2

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

FG00248 - LG-52 Petal Pink



Physical state Liquid

Precautionary Statements - Prevention Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Contaminated work clothing must not be allowed out of the workplace Wear protective gloves/clothing and eye/face protection Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

Specific treatment (see .? on this label) Get medical advice/attention if you feel unwell IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown acute toxicity

3.537 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
3.537 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
48.787 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
48.787 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
6.027 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Other information

May be harmful in contact with skin. Toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

3. Composition/information on ingredients

Not applicable.

Mixture

Chemical name	CAS No	Weight-%
Frits, chemicals	65997-18-4	20 - 40
Zinc oxide (ZnO)	1314-13-2	3 - <5
C.I. Pigment Red 235	68201-65-0	3 - <5
Kaolin	1332-58-7	1 - <3

1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol 4719-04-4 0.1 - 1	
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4. First-aid measures

Description of first aid measures		
General advice	Show this safety data sheet to the doctor in attendance.	
Inhalation	Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.	
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.	

5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.	
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.	
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.	
Explosion data Sensitivity to mechanical impac	t None.	
Sensitivity to static discharge	None.	
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.
Other information	Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Frits, chemicals	STEL: 10 mg/m ³ Zr	TWA: 10 µg/m³ As	IDLH: 5 mg/m ³ As
65997-18-4	TWA: 0.01 mg/m ³ As	TWA: 50 µg/m ³ Pb	IDLH: 9 mg/m ³ Cd dust and
	TWA: 0.05 mg/m ³ Pb	TWA: 0.5 mg/m ³ Sb	fume
	TWA: 0.01 mg/m ³ Cd	TWA: 5 mg/m ³ Zr	IDLH: 50 mg/m ³ Sb
	TWA: 0.002 mg/m ³ Cd	(vacated) TWA: 0.5 mg/m ³ Sb	IDLH: 100 mg/m ³ Cu dust and
	respirable particulate matter	(vacated) TWA: 5 mg/m ³ Zr	mist
	TWA: 0.5 mg/m ³ Sb	(vacated) STEL: 10 mg/m ³ Zr	IDLH: 500 mg/m ³ Mn
	TWA: 1 mg/m ³ Cu dust and mist	(vacated) Ceiling: 5 mg/m ³	IDLH: 25 mg/m ³ Zr
	TWA: 3 mg/m ³ W respirable	Ceiling: 5 mg/m ³ Mn	IDLH: 100 mg/m ³ Pb
	particulate matter in the absence		IDLH: 10 mg/m ³ Ni
	of cobalt		Ceiling: 0.002 mg/m ³ As 15 min
	TWA: 5 mg/m ³ Zr		Ceiling: 0.05 mg/m ³ V dust and
	TWA: 0.02 mg/m ³ Mn respirable		fume 15 min
	particulate matter		TWA: 0.5 mg/m ³ Sb
	TWA: 0.1 mg/m ³ Mn inhalable		TWA: 1 mg/m ³ Cu dust and
	particulate matter		mist
			TWA: 1 mg/m ³ Mn
			TWA: 5 mg/m ³ except Zirconium
			tetrachloride Zr
			TWA: 0.050 mg/m ³ Pb
			TWA: 0.015 mg/m ³ except
			Nickel carbonyl Ni
			STEL: 3 mg/m ³ Mn
			STEL: 10 mg/m ³ Zr
Zinc oxide (ZnO)	STEL: 10 mg/m ³ respirable	TWA: 5 mg/m ³ fume	IDLH: 500 mg/m ³
1314-13-2	particulate matter	TWA: 15 mg/m ³ total dust	Ceiling: 15 mg/m ³ dust
	TWA: 2 mg/m ³ respirable	TWA: 5 mg/m ³ respirable	TWA: 5 mg/m ³ dust and fume
	particulate matter	fraction	STEL: 10 mg/m ³ fume

		(vacated) TWA: 5 mg/m ³ fume	
		(vacated) TWA: 10 mg/m ³ total	
		dust	
		(vacated) TWA: 5 mg/m ³	
		respirable fraction	
		(vacated) STEL: 10 mg/m ³	
		fume	
C.I. Pigment Red 235	-	TWA: 0.5 mg/m ³ Cr	IDLH: 25 mg/m ³ Cr(III)
68201-65-0		(vacated) TWA: 0.5 mg/m ³ Cr	TWA: 0.5 mg/m ³ Cr
Kaolin	TWA: 2 mg/m ³ particulate	TWA: 15 mg/m ³ total dust	TWA: 10 mg/m ³ total dust
1332-58-7	matter containing no asbestos	TWA: 5 mg/m ³ respirable	TWA: 5 mg/m ³ respirable dust
	and <1% crystalline silica,	fraction	
	respirable particulate matter	(vacated) TWA: 10 mg/m ³ total	
		dust	
		(vacated) TWA: 5 mg/m ³	
		respirable fraction	

Biological occupational exposure limits

Chemical name	ACGIH
Frits, chemicals	200 μg/L - blood (Lead) - not critical
65997-18-4	5 µg/g creatinine - urine (Cadmium) - not critical
	5 µg/L - blood (Cadmium) - not critical

Appropriate engineering controls

Engineering controls	Showers
	Eyewash stations
	Ventilation systems.

Individual protection measures, such as personal protective equipmentEye/face protectionWear safety glasses with side shields (or goggles).Hand protectionWear suitable gloves.Skin and body protectionWear suitable protective clothing.Respiratory protectionNo protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.General hygiene considerationsDo not eat, drink or smoke when using this product.

9. Physical and chemical properties

Information on basic physical and chemical properties Physical state Liquid Appearance Color Odor Odor threshold

Property_	Values
pH	No data available
Melting point / freezing point	No data available
Initial boiling point and boiling range	eNo data available
Flash point	No data available
Evaporation rate	No data available
Flammability	No data available
Flammability Limit in Air	
Upper flammability or explosive	No data available

Remarks • Method

None known None known None known None known None known None known

limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	410	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
VOC Content (%)	No information available	
10. Stability and reactivity		
Reactivity	No information available.	

Chemical stability	Stable under normal conditions.	
Possibility of hazardous reactions	None under normal processing.	
Conditions to avoid	Excessive heat.	
Incompatible materials	None known based on information supplied.	
Hazardous decomposition products None known based on information supplied.		

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May be harmful in contact with skin.
Ingestion	Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing.
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Acute toxicity

Numerical measures of toxicity No information available

The following values are calculated based on chapter 3.1 of the GHS documentATEmix (oral)257.10 mg/kgATEmix (dermal)4,570.80 mg/kg

ATEmix (inhalation-dust/mist) 3.77 mg/l

Unknown acute toxicity

3.537 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
3.537 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
48.787 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
48.787 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
6.027 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Frits, chemicals 65997-18-4	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Zinc oxide (ZnO) 1314-13-2	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 5700 mg/m³(Rat)4 h
Kaolin 1332-58-7	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
1,3,5-Triazine-1,3,5(2H,4H,6H)-t riethanol 4719-04-4	= 763 mg/kg (Rat)	> 4000 mg/kg (Rat)	= 0.4 mg/L (Rat)4 h = 0.338 mg/L (Rat)4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure_

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	No information available.

Carcinogenicity

No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Frits, chemicals	A1	Group 1	Known	Х
65997-18-4	A3	Group 2B	Reasonably Anticipated	
	A2	Group 2A		
C.I. Pigment Red 235 68201-65-0	-	Group 3	-	-

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

- A1 Known Human Carcinogen
- A2 Suspected Human Carcinogen
- A3 Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

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OSHA (Occupational Safety and Health Administration of the US Department of Labor)
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X - Present

STOT - single exposure	No information available.
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Target organ effects	Liver, Kidney, Respiratory system, Eyes, Skin, Central nervous system, Blood, Central Vascular System (CVS), Lungs, Nasal Cavities, Lymphatic System, prostate, Gastrointestinal tract (GI).
Aspiration hazard	No information available.
Other adverse effects	
Interactive effects	

12. Ecological information

Ecotoxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Zinc oxide (ZnO)	-	LC50: =1.55mg/L (96h,	-	-
1314-13-2		Danio rerio)		
1,3,5-Triazine-1,3,5(2H,4	-	LC50: =16.07mg/L (96h,	-	-
H,6H)-triethanol		Danio rerio)		
4719-04-4				

Persistence and degradability

Bioaccumulation	There is no data for this product.		
Other adverse effects	No information available.		

Disposal methods	
Waste from residues/unused products	Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.
Contaminated packaging	Do not reuse empty containers.
California Hazardous Waste Status	This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. Transport information

DOT

Not regulated

UN number or ID number	UN3082
Packing group	111

15. Regulatory information

International Inventories

TSCA

Contact supplier for inventory compliance status.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Water	7732-18-5	Present	Active
Frits, chemicals	65997-18-4	Present	Active
Zinc oxide (ZnO)	1314-13-2	Present	Active
C.I. Pigment Red 235	68201-65-0	Present	Active
Kaolin	1332-58-7	Present	Active
Smectite-group minerals	12199-37-0	Present	Active
Sodium carboxymethyl cellulose	9004-32-4	Present	Active
1,3,5-Triazine-1,3,5(2H,4H,6H)-trietha nol	4719-04-4	Present	Active
D-gluco-Heptonic acid, monosodium salt, (2.xi.)-	31138-65-5	Present	Active
Ethanolamine	141-43-5	Present	Active

DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIoC	Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Frits, chemicals - 65997-18-4	0.1
	1.0
Zinc oxide (ZnO) - 1314-13-2	1.0
C.I. Pigment Red 235 - 68201-65-0	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Frits, chemicals 65997-18-4	-	Х	-	-
Zinc oxide (ZnO) 1314-13-2	-	Х	-	-
C.I. Pigment Red 235 68201-65-0	-	X	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5	-	-	X
Frits, chemicals 65997-18-4	Х	-	Х
Zinc oxide (ZnO) 1314-13-2	Х	X	X
C.I. Pigment Red 235 68201-65-0	Х	-	X
Kaolin 1332-58-7	Х	X	X
Ethanolamine 141-43-5	Х	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other info	ormation				
NFPA HMIS	Health hazards 2 Health hazards 2			Instability 0 Physical hazards 0	Special hazards - Personal protection X
	abbreviations and acrony 3: Exposure controls/per TWA (time-weighted aver Maximum limit value	sonal protection	t <u>y data sh</u> TEL	eet STEL (Short Term Skin designation	Exposure Limit)
Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals					

FG00248 - LG-52 Petal Pink

Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date Revision Note Disclaimer 13-Sep-2022

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End of Safety Data Sheet

SAFETY DATA SHEET

Revision date 26-Jan-2023

1. Identification Product identifier LG-65 Amber **Product Name** Other means of identification Product Code(s) FG00258 **UN number or ID number** UN3082 39155E, 39185M Synonyms Recommended use of the chemical and restrictions on use **Recommended use Restrictions on use** Details of the supplier of the safety data sheet Manufacturer Address American Art Clay Co Inc 6060 Guion Road Indianapolis, IN 46254-1222 USA Toll Free: 1-800-999-5456 CustomerCare@Amaco.com Emergency telephone number U.S. Poison Control 1-800-222-1222 **Emergency Telephone** 2. Hazard(s) identification

Classification

Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1
Specific target organ toxicity (repeated exposure)	Category 2

Hazards not otherwise classified (HNOC)

Not applicable

AMACO EST. 1919 brent

Revision Number 1

Label elements

Hazard statements Danger

H301 - Toxic if swallowed

- H317 May cause an allergic skin reaction
- H332 Harmful if inhaled
- H373 May cause damage to organs through prolonged or repeated exposure



Physical state Liquid

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Contaminated work clothing must not be allowed out of the workplace Wear protective gloves/clothing and eye/face protection Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

Specific treatment (see .? on this label) Get medical advice/attention if you feel unwell IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown acute toxicity

2.1137 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
6.0112 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
53.6112 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
53.6112 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
6.0112 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (uspor)

Other information

May be harmful in contact with skin. Toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

3. Composition/information on ingredients

Not applicable.

Mixture

Chemical name	CAS No	Weight-%
Frits, chemicals	65997-18-4	40 - 60
Iron oxide (Fe2O3)	1309-37-1	3 - <5

Revision date 26-Jan-2023

1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol 4719-04-4 0.1 - 1		4719-04-4	0.1 - 1
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4. First-aid measures Description of first aid measures General advice Show this safety data sheet to the doctor in attendance. Inhalation Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately. Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

- Skin contactWash with soap and water. May cause an allergic skin reaction. In the case of skin irritation
or allergic reactions see a physician.
- Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.
- **Self-protection of the first aider** Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.

Most important symptoms and effects, both acute and delayed

Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.
Indication of any immediate medica	I attention and special treatment needed
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.
Explosion data Sensitivity to mechanical impac	t None.
Sensitivity to static discharge	None.
Special protective equipment and	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

6. Accidental release measures

precautions for fire-fighters

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.
Other information	Refer to protective measures listed in Sections 7 and 8.

Use personal protection equipment.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Frits, chemicals	STEL: 10 mg/m ³ Zr	TWA: 10 µg/m³ As	IDLH: 5 mg/m ³ As
65997-18-4	TWA: 0.01 mg/m ³ As	TWA: 50 µg/m ³ Pb	IDLH: 9 mg/m ³ Cd dust and
	TWA: 0.05 mg/m ³ Pb	TWA: 0.5 mg/m ³ Sb	fume
	TWA: 0.01 mg/m ³ Cd	TWA: 5 mg/m ³ Zr	IDLH: 50 mg/m ³ Sb
	TWA: 0.002 mg/m ³ Cd	(vacated) TWA: 0.5 mg/m ³ Sb	IDLH: 100 mg/m ³ Cu dust and
	respirable particulate matter	(vacated) TWA: 5 mg/m ³ Zr	mist
	TWA: 0.5 mg/m ³ Sb	(vacated) STEL: 10 mg/m ³ Zr	IDLH: 500 mg/m ³ Mn
	TWA: 1 mg/m ³ Cu dust and mist	(vacated) Ceiling: 5 mg/m ³	IDLH: 25 mg/m ³ Zr
	TWA: 3 mg/m ³ W respirable	Ceiling: 5 mg/m ³ Mn	IDLH: 100 mg/m ³ Pb
	particulate matter in the absence		IDLH: 10 mg/m ³ Ni
	of cobalt		Ceiling: 0.002 mg/m ³ As 15 min
	TWA: 5 mg/m ³ Zr		Ceiling: 0.05 mg/m ³ V dust and
	TWA: 0.02 mg/m ³ Mn respirable		fume 15 min
	particulate matter		TWA: 0.5 mg/m ³ Sb
	TWA: 0.1 mg/m ³ Mn inhalable		TWA: 1 mg/m ³ Cu dust and
	particulate matter		mist
			TWA: 1 mg/m ³ Mn
			TWA: 5 mg/m ³ except Zirconium
			tetrachloride Zr
			TWA: 0.050 mg/m ³ Pb
			TWA: 0.015 mg/m ³ except
			Nickel carbonyl Ni
			STEL: 3 mg/m ³ Mn
			STEL: 10 mg/m ³ Zr
Iron oxide (Fe2O3)	TWA: 5 mg/m ³ respirable	TWA: 10 mg/m ³ fume	IDLH: 2500 mg/m ³ Fe dust and
1309-37-1	particulate matter	TWA: 15 mg/m ³ total dust	fume
		TWA: 5 mg/m ³ respirable	TWA: 5 mg/m ³ Fe dust and
		fraction	fume

(vacated) TWA: 10 mg/m ³ fume
and total dust Iron oxide
(vacated) TWA: 5 mg/m ³
respirable fraction regulated
under Rouge

Biological occupational exposure limits

Chemical name	ACGIH
Frits, chemicals	200 µg/L - blood (Lead) - not critical
65997-18-4	5 μg/g creatinine - urine (Cadmium) - not critical
	5 µg/L - blood (Cadmium) - not critical

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product.

9. Physical and chemical properties

Information on basic physical and chemical properties				
Physical state	Liquid			
Appearance				
Color				
Odor				
Odor threshold				

Property_	Values	Remarks • Method
pH	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling rang	jeNo data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	410 °C / 770 °F	None known
Decomposition temperature		None known

Kinematic viscosity Dynamic viscosity	No data available No data available	None known None known	
Other information Explosive properties Oxidizing properties VOC Content (%)	No information available No information available No information available		
10. Stability and reactivity			
Reactivity	No information available.		
Chemical stability	Stable under normal conditions.		
Possibility of hazardous reactions	None under normal processing.		
Conditions to avoid	Excessive heat.		
Incompatible materials	None known based on information supplied.		
Hazardous decomposition product	s None known based on information	supplied.	

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).				
Eye contact	Specific test data for the s	Specific test data for the substance or mixture is not available.			
Skin contact	not available. Repeated or	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May be harmful in contact with skin.			
Ingestion	Specific test data for the second components).	ubstance or mixture is not availab	le. Toxic if swallowed. (based on		
Symptoms related to the physica	II, chemical and toxicologica	I characteristics			
Symptoms	Itching. Rashes. Hives. Co	oughing and/ or wheezing.			
Acute toxicity					
Numerical measures of toxicity No information available					
The following values are calculated based on chapter 3.1 of the GHS documentATEmix (oral)209.90 mg/kgATEmix (dermal)4,201.70 mg/kg					
ATEmix (inhalation-dust/mis	:) 3.15 mg/l				
 Unknown acute toxicity 2.1137 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 6.0112 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity 53.6112 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 53.6112 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 6.0112 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist) 					
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50		

FG00258 - LG-65 Amber

Frits, chemicals 65997-18-4	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Iron oxide (Fe2O3) 1309-37-1	> 10000 mg/kg (Rat)	-	-
1,3,5-Triazine-1,3,5(2H,4H,6H)-t riethanol 4719-04-4	= 763 mg/kg (Rat)	> 4000 mg/kg (Rat)	= 0.4 mg/L (Rat)4 h = 0.338 mg/L (Rat)4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	No information available.

Carcinogenicity

No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Frits, chemicals	A1	Group 1	Known	Х
65997-18-4	A3	Group 2B	Reasonably Anticipated	
	A2	Group 2A		
Iron oxide (Fe2O3)	-	Group 3	-	-
1309-37-1				
T T				

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

- A1 Known Human Carcinogen
- A2 Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Target organ effects	Liver, Kidney, Respiratory system, Eyes, Skin, Central nervous system, Blood, Central Vascular System (CVS), Lungs, Nasal Cavities, Lymphatic System, prostate.
Aspiration hazard	No information available.
Other adverse effects	

Interactive effects

12. Ecological information

Ecotoxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Iron oxide (Fe2O3) 1309-37-1	-	LC50: =100000mg/L (96h, Danio rerio)	-	-
1,3,5-Triazine-1,3,5(2H,4 H,6H)-triethanol 4719-04-4	-	LC50: =16.07mg/L (96h, Danio rerio)	-	-

Persistence and degradability

Bioaccumulation

There is no data for this product.

Other adverse effects

No information available.

13. Disposal considerations

Disposal methods

Waste from residues/unused products	Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.
Contaminated packaging	Do not reuse empty containers.
California Hazardous Waste Status	This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. Transport information

DOT

UN number or ID number Proper shipping name Transport hazard class(es) Packing group Special Provisions DOT Marine Pollutant Marine pollutant Description	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III 8, 146, 173, 335, IB3, T4, TP1, TP29 PP Frits, chemicals UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III, Marine pollutant 171	
Emergency Response Guide Number		
TDG		
UN number or ID number	UN3082	
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.	
Transport hazard class(es)	9	
Packing group		
Special Provisions	16, 99	
Marine pollutant name	Frits, chemicals.	
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III	

<u>MEX</u> UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Technical Name Description Special Provisions	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III Frits, chemicals UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III 274, 331, 335
ICAO (air) UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Description Special Provisions	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III A97, A158, A197, A215
IATA UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Technical Name Description Special Provisions ERG Code	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III Frits, chemicals UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III A97, A158, A197 9L
IMDG UN number or ID number UN proper shipping name Transport hazard class(es) Packing group EmS-No Special Provisions Marine pollutant Marine Pollutant Description	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III F-A, S-F 274, 335, 969 P Frits, chemicals UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III, Marine pollutant
<u>RID</u> UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Classification code Special Provisions Description	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III M6 274, 335, 375, 601 UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III
ADR UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Classification code Tunnel restriction code Special Provisions Description	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III M6 (-) 274, 335, 601, 375 UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III, (-)
ADN UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Classification code	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III M6

Special Provisions Description Equipment Requirements

274, 335, 375, 601 UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III PP

15. Regulatory information

International Inventories

TSCA

Contact supplier for inventory compliance status.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Frits, chemicals	65997-18-4	Present	Active
Water	7732-18-5	Present	Active
Iron oxide (Fe2O3)	1309-37-1	Present	Active
Sodium carboxymethyl cellulose	9004-32-4	Present	Active
Smectite-group minerals	12199-37-0	Present	Active
Manganese	7439-96-5	Present	Active
D-gluco-Heptonic acid, monosodium salt, (2.xi.)-	31138-65-5	Present	Active
1,3,5-Triazine-1,3,5(2H,4H,6H)-trietha nol	4719-04-4	Present	Active
Aluminum oxide (Al2O3)	1344-28-1	Present	Active
Quartz	14808-60-7	Present	Active
Barium oxide	1304-28-5	Present	Active
Ethanolamine	141-43-5	Present	Active

	Contact supplier for inventory compliance status.
EINECS/ELINCS ENCS	Contact supplier for inventory compliance status. Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIOC	Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Frits, chemicals - 65997-18-4	0.1
	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Frits, chemicals 65997-18-4	-	Х	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Frits, chemicals 65997-18-4	Х	-	Х
Water 7732-18-5	-	-	Х
Iron oxide (Fe2O3) 1309-37-1	Х	X	Х
Manganese 7439-96-5	Х	X	Х
Aluminum oxide (Al2O3) 1344-28-1	Х	X	Х
Quartz 14808-60-7	Х	X	Х
Barium oxide 1304-28-5	Х	-	Х
Ethanolamine 141-43-5	Х	X	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other info	ormation				
NFPA HMIS	Health hazards 2 Health hazards 2 *	Flammability Flammability		Instability 0 Physical hazards 0	Special hazards - Personal protection X
	abbreviations and acronyms 8: Exposure controls/persona		ty data she	eet_	
TWA	TWA (time-weighted average)		TEL	STEL (Short Te	rm Exposure Limit)
Ceiling	Maximum limit value	*		Skin designation	n
Ceiling Maximum limit value * Skin designation Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Food Research Journal Food Research Journal					

Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

 Revision date
 26-Jan-2023

 Revision Note
 Disclaimer

 The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET

AMACO EST. 1919 brent

Revision Number 1

Revision date 26-Jan-2023

1. Identification	
Product identifier	
Product Name	LG-57 Intense Red
Other means of identification	
Product Code(s)	FG00251
UN number or ID number	UN3082
Synonyms	38509C
Recommended use of the chemical	and restrictions on use
Recommended use	
Restrictions on use	
Details of the supplier of the safety	data sheet
Manufacturer Address American Art Clay Co Inc 6060 Guion Road Indianapolis, IN 46254-1222 USA Toll Free: 1-800-999-5456 CustomerCare@Amaco.com	
Emergency telephone number	
Emergency Telephone	U.S. Poison Control 1-800-222-1222
2. Hazard(s) identification	

Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1
Carcinogenicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 2

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

H D

lazard statements
Danger
1302 - Harmful if swallowed
H317 - May cause an allergic skin reaction H332 - Harmful if inhaled
1350 - May cause cancer
1373 - May cause damage to organs through prolonged or repeated exposure

Physical state Liquid Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Contaminated work clothing must not be allowed out of the workplace Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention Specific treatment (see .? on this label) IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown acute toxicity

2.587 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
2.587 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
39.707 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
39.707 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
6.747 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Other information

Toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

3. Composition/information on ingredients

Not applicable.

Mixture

Chemical name	CAS No	Weight-%
Frits, chemicals	65997-18-4	20 - 40
Zircon, cadmium red	72828-62-7	5 - <10
Kaolin	1332-58-7	3 - <5
1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol	4719-04-4	0.1 - 1

4. First-aid measures

Description of first aid measures	
General advice	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
Inhalation	Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.
Most important symptoms and effe	cts, both acute and delayed
Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.
Indication of any immediate medica	al attention and special treatment needed
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.	
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.	
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.	
Explosion data Sensitivity to mechanical impac	t None.	
Sensitivity to static discharge	None.	
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

FG00251 - LG-57 Intense Red

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.
Other information	Refer to protective measures listed in Sections 7 and 8.
Methods and material for cont	ainment and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off
	contaminated clothing and wash before reuse. Avoid breathing vapors or mists.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Frits, chemicals	STEL: 10 mg/m ³ Zr	TWA: 10 µg/m³ As	IDLH: 5 mg/m ³ As
65997-18-4	TWA: 0.01 mg/m ³ As	TWA: 50 µg/m³ Pb	IDLH: 9 mg/m ³ Cd dust and
	TWA: 0.05 mg/m ³ Pb	TWA: 0.5 mg/m ³ Sb	fume
	TWA: 0.01 mg/m ³ Cd	TWA: 5 mg/m ³ Zr	IDLH: 50 mg/m ³ Sb
	TWA: 0.002 mg/m ³ Cd	(vacated) TWA: 0.5 mg/m ³ Sb	IDLH: 100 mg/m ³ Cu dust and
	respirable particulate matter	(vacated) TWA: 5 mg/m ³ Zr	mist
	TWA: 0.5 mg/m ³ Sb	(vacated) STEL: 10 mg/m ³ Zr	IDLH: 500 mg/m ³ Mn
	TWA: 1 mg/m ³ Cu dust and mist	(vacated) Ceiling: 5 mg/m ³	IDLH: 25 mg/m ³ Zr
	TWA: 3 mg/m ³ W respirable	Ceiling: 5 mg/m ³ Mn	IDLH: 100 mg/m ³ Pb
	particulate matter in the absence		IDLH: 10 mg/m ³ Ni
	of cobalt		Ceiling: 0.002 mg/m ³ As 15 min
	TWA: 5 mg/m ³ Zr		Ceiling: 0.05 mg/m ³ V dust and
	TWA: 0.02 mg/m ³ Mn respirable		fume 15 min
	particulate matter		TWA: 0.5 mg/m ³ Sb
	TWA: 0.1 mg/m ³ Mn inhalable		TWA: 1 mg/m ³ Cu dust and
	particulate matter		mist
			TWA: 1 mg/m ³ Mn
			TWA: 5 mg/m ³ except Zirconium
			tetrachloride Zr
			TWA: 0.050 mg/m ³ Pb
			TWA: 0.015 mg/m ³ except
			Nickel carbonyl Ni

FG00251 - LG-57 Intense Red

			STEL: 2 mg/m ³ Mp
			STEL: 3 mg/m ³ Mn
			STEL: 10 mg/m ³ Zr
Zircon, cadmium red	STEL: 10 mg/m ³ Zr	TWA: 0.2 mg/m ³ Se	IDLH: 9 mg/m ³ Cd dust and
72828-62-7	TWA: 0.01 mg/m ³ Cd	TWA: 5 mg/m ³ Zr	fume
	TWA: 0.002 mg/m ³ Cd	(vacated) TWA: 0.2 mg/m ³ Se	IDLH: 1 mg/m ³ Se
	respirable particulate matter	(vacated) TWA: 5 mg/m ³ Zr	IDLH: 25 mg/m ³ Zr
	TWA: 0.2 mg/m ³ Se	(vacated) STEL: 10 mg/m ³ Zr	TWA: 0.2 mg/m ³ except
	TWA: 5 mg/m ³ Zr		Selenium hexafluoride Se
			TWA: 5 mg/m ³ except Zirconium
			tetrachloride Zr
			STEL: 10 mg/m ³ Zr
Kaolin	TWA: 2 mg/m ³ particulate	TWA: 15 mg/m ³ total dust	TWA: 10 mg/m ³ total dust
1332-58-7	matter containing no asbestos	TWA: 5 mg/m ³ respirable	TWA: 5 mg/m ³ respirable dust
	and <1% crystalline silica,	fraction	
	respirable particulate matter	(vacated) TWA: 10 mg/m ³ total	
		dust	
		(vacated) TWA: 5 mg/m ³	
		respirable fraction	

Biological occupational exposure limits

Chemical name	ACGIH
65997-18-4	200 μg/L - blood (Lead) - not critical 5 μg/g creatinine - urine (Cadmium) - not critical 5 μg/L - blood (Cadmium) - not critical
	5 μg/g creatinine - urine (Cadmium) - not critical 5 μg/L - blood (Cadmium) - not critical

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties

Information on basic physical and chemical properties
Physical state
Liquid
Appearance
Color
Odor
Odor
Odor threshold

PropertyValuespHNo data availableMelting point / freezing pointNo data availableInitial boiling point and boiling rangeNo data available

Remarks • Method None known None known None known

FG00251 - LG-57 Intense Red

Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	410 °C / 770 °F	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
VOC Content (%)	No information available	
· · /		

10. Stability and reactivity

Reactivity	No information available.		
Chemical stability	Stable under normal conditions.		
Possibility of hazardous reactions	None under normal processing.		
Conditions to avoid	Excessive heat.		
Incompatible materials	None known based on information supplied.		

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components).
Ingestion	Specific test data for the substance or mixture is not available. Harmful if swallowed. (based on components).
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing.
Acute toxicity	

Numerical measures of toxicity

No information available

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	302.60 mg/kg
ATEmix (dermal)	5,019.60 mg/kg
ATEmix (inhalation-dust/mist)	4.55 mg/l

Unknown acute toxicity

2.587 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
2.587 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
39.707 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
39.707 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
6.747 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Frits, chemicals 65997-18-4	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Kaolin 1332-58-7	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
1,3,5-Triazine-1,3,5(2H,4H,6H)-t riethanol 4719-04-4	= 763 mg/kg (Rat)	> 4000 mg/kg (Rat)	= 0.4 mg/L (Rat)4 h = 0.338 mg/L (Rat)4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	No information available.

Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Frits, chemicals	A1	Group 1	Known	Х
65997-18-4	A3	Group 2B	Reasonably Anticipated	
	A2	Group 2A		
Zircon, cadmium red	A2	Group 1	Known	Х
72828-62-7		Group 3		

Legend

Carcinogenicity

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Target organ effects	Liver, Kidney, Respiratory system, Eyes, Skin, Central nervous system, Blood, Central Vascular System (CVS), Lungs, Nasal Cavities, Lymphatic System, prostate, Gastrointestinal tract (GI).
Aspiration hazard	No information available.
Other adverse effects	
Interactive effects	

12. Ecological information

Ecotoxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1,3,5-Triazine-1,3,5(2H,4 H,6H)-triethanol 4719-04-4	-	LC50: =16.07mg/L (96h, Danio rerio)	-	-

Persistence and degradability

Bioaccumulation	There is no data for this product.
Other adverse effects	No information available.

13. Disposal considerations		
Disposal methods		
Waste from residues/unused products	Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.	

Contaminated packaging	Do not reuse empty containers.
California Hazardous Waste Status	This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. Transport information

DOT

UN number or ID number	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Transport hazard class(es)	9
Packing group	III

Special Provisions	8, 146, 173, 335, IB3, T4, TP1, TP29
DOT Marine Pollutant	PP
Marine pollutant	Frits, chemicals, Zircon, cadmium red
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zircon,
Emergency Response Guide	cadmium red), 9, III, Marine pollutant
Number	171
TDG	UN3082
UN number or ID number	Environmentally hazardous substance, liquid, n.o.s.
UN proper shipping name	9
Transport hazard class(es)	III
Packing group	16, 99
Special Provisions	Frits, chemicals, Zircon, cadmium red.
Marine pollutant name	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zircon,
Description	cadmium red), 9, III
MEX	UN3082
UN number or ID number	Environmentally hazardous substance, liquid, n.o.s.
UN proper shipping name	9
Transport hazard class(es)	III
Packing group	Frits, chemicals, Zircon, cadmium red
Technical Name	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zircon,
Description	cadmium red), 9, III
Special Provisions	274, 331, 335
ICAO (air)	UN3082
UN number or ID number	Environmentally hazardous substance, liquid, n.o.s.
UN proper shipping name	9
Transport hazard class(es)	III
Packing group	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zircon,
Description	cadmium red), 9, III
Special Provisions	A97, A158, A197, A215
<u>IATA</u>	UN3082
UN number or ID number	Environmentally hazardous substance, liquid, n.o.s.
UN proper shipping name	9
Transport hazard class(es)	III
Packing group	Frits, chemicals, Zircon, cadmium red
Technical Name	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zircon,
Description	cadmium red), 9, III
Special Provisions	A97, A158, A197
ERG Code	9L
IMDG	UN3082
UN number or ID number	Environmentally hazardous substance, liquid, n.o.s.
UN proper shipping name	9
Transport hazard class(es)	III
Packing group	F-A, S-F
EmS-No	274, 335, 969
Special Provisions	P
Marine pollutant	Frits, chemicals, Zircon, cadmium red
Marine Pollutant	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zircon,
Description	cadmium red), 9, III, Marine pollutant
RID UN number or ID number UN proper shipping name Transport hazard class(es) Packing group	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III

Classification code	M6
Special Provisions	274, 335, 375, 601
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zircon, cadmium red), 9, III
ADR	UN3082
UN number or ID number	Environmentally hazardous substance, liquid, n.o.s.
UN proper shipping name	9
Transport hazard class(es)	III
Packing group	M6
Classification code	(-)
Tunnel restriction code	274, 335, 601, 375
Special Provisions	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zircon,
Description	cadmium red), 9, III, (-)
ADN	UN3082
UN number or ID number	Environmentally hazardous substance, liquid, n.o.s.
UN proper shipping name	9
Transport hazard class(es)	III
Packing group	M6
Classification code	274, 335, 375, 601
Special Provisions	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zircon,
Description	cadmium red), 9, III
Equipment Requirements	PP

15. Regulatory information

International Inventories

TSCA

Contact supplier for inventory compliance status.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Water	7732-18-5	Present	Active
Frits, chemicals	65997-18-4	Present	Active
Zircon, cadmium red	72828-62-7	Present	Active
Kaolin	1332-58-7	Present	Active
Feldspar	68476-25-5	Present	Active
Smectite-group minerals	12199-37-0	Present	Active
Sodium carboxymethyl cellulose	9004-32-4	Present	Active
Zircon	14940-68-2	Present	Active
1,3,5-Triazine-1,3,5(2H,4H,6H)-trietha	4719-04-4	Present	Active
nol			
Ethanolamine	141-43-5	Present	Active

DSL/NDSL EINECS/ELINCS	Contact supplier for inventory compliance status. Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIoC	Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances **ENCS** - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Frits, chemicals - 65997-18-4	0.1
	1.0
Zircon, cadmium red - 72828-62-7	0.1
	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Frits, chemicals 65997-18-4	-	Х	-	-
Zircon, cadmium red 72828-62-7	-	Х	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5	-	-	X
Frits, chemicals 65997-18-4	Х	-	X
Zircon, cadmium red 72828-62-7	Х	-	X
Kaolin 1332-58-7	Х	X	X
Feldspar 68476-25-5	Х	-	Х
Ethanolamine 141-43-5	Х	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information				
NFPA <u>HMIS</u> Chronic Hazard Sta	Health hazards 2 Health hazards 2 * ar Legend *= Chronic H	Flammability 0 Flammability 0 Jealth Hazard	Instability 0 Physical hazards 0	Special hazards - Personal protection X
	o abbreviations and acronyms us n 8: Exposure controls/personal TWA (time-weighted average) Maximum limit value			m Exposure Limit)
Agency for Toxic U.S. Environmen European Food S EPA (Environmen Acute Exposure U.S. Environmen Food Research & Hazardous Subs International Unit National Institute Australia National NIOSH (National National Library National Library National Toxicolo New Zealand's C Organization for	tance Database form Chemical Information Database of Technology and Evaluation (NI al Industrial Chemicals Notification I Institute for Occupational Safety a of Medicine's ChemID Plus (NLM C of Medicine's PubMed database (N ogy Program (NTP) Chemical Classification and Informa Economic Co-operation and Devel Economic Co-operation and Devel Economic Co-operation and Devel	(ATSDR) Database ecticide, Fungicide, and F ction Volume Chemicals se (IUCLID) TE) and Assessment Schem and Health) CIP) JLM PUBMED) ation Database (CCID) opment Environment, He opment High Production	Rodenticide Act e (NICNAS) ealth, and Safety Publicatio Volume Chemicals Progra	
Revision date Revision Note	26-Jan-2023	3		

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET

AMACO EST. 1919 brent

Revision Number 1

Revision date 13-Sep-2022

1. Identification	
Product identifier	
Product Name	LG-51 Lilac
Other means of identification	
Product Code(s)	FG00247
Synonyms	38502E
Recommended use of the chemical	and restrictions on use
Recommended use	
Restrictions on use	
Details of the supplier of the safety	data sheet
Manufacturer Address American Art Clay Co Inc 6060 Guion Road Indianapolis, IN 46254-1222 USA Toll Free: 1-800-999-5456 CustomerCare@Amaco.com	
Emergency telephone number	
Emergency Telephone	U.S. Poison Control 1-800-222-1222
Recommended use of the chemical Recommended use Restrictions on use Details of the supplier of the safety Manufacturer Address American Art Clay Co Inc 6060 Guion Road Indianapolis, IN 46254-1222 USA Toll Free: 1-800-999-5456 CustomerCare@Amaco.com Emergency telephone number	and restrictions on use data sheet

2. Hazard(s) identification

Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1
Specific target organ toxicity (repeated exposure)	Category 2

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

FG00247 - LG-51 Lilac

Hazard statements Warning

H302 - Harmful if swallowed H317 - May cause an allergic skin reaction H332 - Harmful if inhaled H373 - May cause damage to organs through prolonged or repeated exposure



Physical state Liquid

Precautionary Statements - Prevention Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area Contaminated work clothing must not be allowed out of the workplace Wear protective gloves/clothing and eye/face protection Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

Specific treatment (see .? on this label) Get medical advice/attention if you feel unwell IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown acute toxicity

16.637 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 16.637 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity 48.237 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 48.237 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 20.637 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Other information

Toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

3. Composition/information on ingredients

Not applicable.

Mixture

Chemical name	CAS No	Weight-%
Frits, chemicals	65997-18-4	20 - 40
Kaolin	1332-58-7	3 - <5
Limestone	1317-65-3	3 - <5
Zinc oxide (ZnO)	1314-13-2	1 - <3
C.I. Pigment Blue 71	68186-95-8	1 - <3

FG00247 - LG-51 Lilac

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Zircon	14940-68-2	1 - <3
1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol	4719-04-4	0.1 - 1

4. First-aid measures

Description of first aid measures		
General advice	Show this safety data sheet to the doctor in attendance.	
Inhalation	Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.	
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.	

5. Fire-fighting measures

Suitable Extinguishing Media Large Fire	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.	
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.	
Specific hazards arising from the chemical	e Product is or contains a sensitizer. May cause sensitization by skin contact.	
Explosion data Sensitivity to mechanical impac	ct None.	
Sensitivity to static discharge	None.	
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.

Other information

Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handlingHandle in accordance with good industrial hygiene and safety practice. Avoid contact with
skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear
suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off
contaminated clothing and wash before reuse. Avoid breathing vapors or mists.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Frits, chemicals	STEL: 10 mg/m ³ Zr	TWA: 10 µg/m³ As	IDLH: 5 mg/m ³ As
65997-18-4	TWA: 0.01 mg/m ³ As	TWA: 50 µg/m ³ Pb	IDLH: 9 mg/m ³ Cd dust and
	TWA: 0.05 mg/m ³ Pb	TWA: 0.5 mg/m ³ Sb	fume
	TWA: 0.01 mg/m ³ Cd	TWA: 5 mg/m ³ Zr	IDLH: 50 mg/m ³ Sb
	TWA: 0.002 mg/m ³ Cd	(vacated) TWA: 0.5 mg/m ³ Sb	IDLH: 100 mg/m ³ Cu dust and
	respirable particulate matter	(vacated) TWA: 5 mg/m ³ Zr	mist
	TWA: 0.5 mg/m ³ Sb	(vacated) STEL: 10 mg/m ³ Zr	IDLH: 500 mg/m ³ Mn
	TWA: 1 mg/m ³ Cu dust and mist	(vacated) Ceiling: 5 mg/m ³	IDLH: 25 mg/m ³ Zr
	TWA: 3 mg/m ³ W respirable	Ceiling: 5 mg/m ³ Mn	IDLH: 100 mg/m ³ Pb
	particulate matter in the absence		IDLH: 10 mg/m ³ Ni
	of cobalt		Ceiling: 0.002 mg/m ³ As 15 min
	TWA: 5 mg/m ³ Zr		Ceiling: 0.05 mg/m ³ V dust and
	TWA: 0.02 mg/m ³ Mn respirable		fume 15 min
	particulate matter		TWA: 0.5 mg/m ³ Sb
	TWA: 0.1 mg/m ³ Mn inhalable		TWA: 1 mg/m ³ Cu dust and
	particulate matter		mist
			TWA: 1 mg/m ³ Mn
			TWA: 5 mg/m ³ except Zirconium
			tetrachloride Zr
			TWA: 0.050 mg/m ³ Pb
			TWA: 0.015 mg/m ³ except
			Nickel carbonyl Ni
			STEL: 3 mg/m ³ Mn
			STEL: 10 mg/m ³ Zr
Kaolin	TWA: 2 mg/m ³ particulate	TWA: 15 mg/m ³ total dust	TWA: 10 mg/m ³ total dust
1332-58-7	matter containing no asbestos	TWA: 5 mg/m ³ respirable	TWA: 5 mg/m ³ respirable dust

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		1	· · · · · · · · · · · · · · · · · · ·
	and <1% crystalline silica,	fraction	
	respirable particulate matter	(vacated) TWA: 10 mg/m ³ total	
		dust	
		(vacated) TWA: 5 mg/m ³	
		respirable fraction	
Limestone	-	TWA: 15 mg/m ³ total dust	TWA: 10 mg/m ³ total dust
1317-65-3		TWA: 5 mg/m ³ respirable	TWA: 5 mg/m ³ respirable dust
		fraction	. .
		(vacated) TWA: 15 mg/m ³ total	
		dust	
		(vacated) TWA: 5 mg/m ³	
		respirable fraction	
Zinc oxide (ZnO)	STEL: 10 mg/m ³ respirable	TWA: 5 mg/m ³ fume	IDLH: 500 mg/m ³
1314-13-2	particulate matter	TWA: 15 mg/m ³ total dust	Ceiling: 15 mg/m ³ dust
	TWA: 2 mg/m ³ respirable	TWA: 5 mg/m ³ respirable	TWA: 5 mg/m ³ dust and fume
	particulate matter	fraction	STEL: 10 mg/m ³ fume
	•	(vacated) TWA: 5 mg/m ³ fume	J J
		(vacated) TWA: 10 mg/m ³ total	
		dust	
		(vacated) TWA: 5 mg/m ³	
		respirable fraction	
		(vacated) STEL: 10 mg/m ³	
		fume	
C.I. Pigment Blue 71	STEL: 10 mg/m ³ Zr	TWA: 5 mg/m ³ Zr	IDLH: 25 mg/m ³ Zr
68186-95-8	TWA: 5 mg/m ³ Zr	(vacated) TWA: 5 mg/m ³ Zr	Ceiling: 0.05 mg/m ³ V dust and
	- 3	(vacated) STEL: 10 mg/m ³ Zr	fume 15 min
		(TWA: 5 mg/m ³ except Zirconium
			tetrachloride Zr
			STEL: 10 mg/m ³ Zr
Zircon	STEL: 10 mg/m ³ Zr	TWA: 5 mg/m ³ Zr	IDLH: 25 mg/m ³ Zr
14940-68-2	TWA: 5 mg/m ³ Zr	(vacated) TWA: 5 mg/m ³ Zr	TWA: 5 mg/m ³ except Zirconium
	- 3, -	(vacated) STEL: 10 mg/m ³ Zr	tetrachloride Zr
			STEL: 10 mg/m ³ Zr
	l		

Biological occupational exposure limits

Chemical name	ACGIH
	200 μg/L - blood (Lead) - not critical
	5 μg/g creatinine - urine (Cadmium) - not critical
	5 μg/L - blood (Cadmium) - not critical

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	th as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves.
Skin and body protection Respiratory protection	Wear suitable protective clothing. No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product.

Information on basic physical and chemical properties
Physical state
Liquid
Appearance
Color
Odor
Odor
Odor threshold

pH No data available None known	
pH No data available None known	
Melting point / freezing point No data available None known	
Initial boiling point and boiling rangeNo data available None known	
Flash point No data available None known	
Evaporation rate No data available None known	
Flammability No data available None known	
Flammability Limit in Air None known	
Upper flammability or explosive No data available	
limits	
Lower flammability or explosive No data available	
limits	
Vapor pressure No data available None known	
Relative vapor densityNo data availableNone known	
Relative densityNo data availableNone known	
Water solubility No data available None known	
Solubility(ies) No data available None known	
Partition coefficient No data available None known	
Autoignition temperature 410 None known	
Decomposition temperature None known	
Kinematic viscosity No data available None known	
Dynamic viscosity No data available None known	
Other information	
Explosive properties No information available	
Oxidizing properties No information available	
VOC Content (%) No information available	

10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Excessive heat.
Incompatible materials	None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons. (based on components).

Ingestion Specific test data for the substance or mixture is not available. Harmful if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

Itching. Rashes. Hives. Coughing and/ or wheezing.

Acute toxicity

Numerical measures of toxicity No information available

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	330.40 mg/kg
ATEmix (dermal)	5,709.80 mg/kg
ATEmix (inhalation-dust/mist)	4.62 mg/l

Unknown acute toxicity

16.637 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 16.637 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity 48.237 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 48.237 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 20.637 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Frits, chemicals 65997-18-4	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Kaolin 1332-58-7	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Zinc oxide (ZnO) 1314-13-2	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 5700 mg/m³ (Rat)4 h
C.I. Pigment Blue 71 68186-95-8	-	-	> 5.1 mg/L (Rat)4 h
1,3,5-Triazine-1,3,5(2H,4H,6H)-t riethanol 4719-04-4	= 763 mg/kg (Rat)	> 4000 mg/kg (Rat)	= 0.4 mg/L (Rat)4 h = 0.338 mg/L (Rat)4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	No information available.

Carcinogenicity No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Frits, chemicals	A1	Group 1	Known	Х
65997-18-4	A3	Group 2B	Reasonably Anticipated	
	A2	Group 2A		

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

 IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans NTP (National Toxicology Program) Known - Known Carcinogen Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present 			
Reproductive toxicity	No information available.		
STOT - single exposure	No information available.		
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
Target organ effects	Liver, Kidney, Respiratory system, Eyes, Skin, Central nervous system, Blood, Central Vascular System (CVS), Lungs, Nasal Cavities, Lymphatic System, prostate, Gastrointestinal tract (GI).		

Aspiration hazard

Other adverse effects

Interactive effects

12. Ecological information

Ecotoxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Zinc oxide (ZnO) 1314-13-2	-	LC50: =1.55mg/L (96h, Danio rerio)	-	-
1,3,5-Triazine-1,3,5(2H,4 H,6H)-triethanol 4719-04-4	-	LC50: =16.07mg/L (96h, Danio rerio)	-	-

Persistence and degradability

Bioaccumulation There is no data for this product.

Other adverse effects

No information available.

No information available.

13. Disposal considerations

Disposal methods

Waste from residues/unused products

Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.

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Contaminated packaging

Do not reuse empty containers.

California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. Transport information

DOT	Not regulated		
UN number or ID number Packing group	UN3082 III		

15. Regulatory information

International Inventories

TSCA

Contact supplier for inventory compliance status.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Water	7732-18-5	Present	Active
Frits, chemicals	65997-18-4	Present	Active
Feldspar	68476-25-5	Present	Active
Kaolin	1332-58-7	Present	Active
Limestone	1317-65-3	Present	Active
Zinc oxide (ZnO)	1314-13-2	Present	Active
C.I. Pigment Blue 71	68186-95-8	Present	Active
Zircon	14940-68-2	Present	Active
Smectite-group minerals	12199-37-0	Present	Active
Sodium carboxymethyl cellulose	9004-32-4	Present	Active
C.I. Pigment Red 233	68187-12-2	Present	Active
1,3,5-Triazine-1,3,5(2H,4H,6H)-trietha nol	4719-04-4	Present	Active
Ethanolamine	141-43-5	Present	Active

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Frits, chemicals - 65997-18-4	0.1
	1.0
Zinc oxide (ZnO) - 1314-13-2	1.0
C.I. Pigment Blue 71 - 68186-95-8	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Frits, chemicals 65997-18-4	-	Х	-	-
Zinc oxide (ZnO) 1314-13-2	-	Х	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5	-	-	X
Frits, chemicals 65997-18-4	Х	-	X
Feldspar 68476-25-5	Х	-	X
Kaolin 1332-58-7	Х	X	X
Limestone 1317-65-3	Х	X	X
Zinc oxide (ZnO) 1314-13-2	Х	X	X
C.I. Pigment Blue 71 68186-95-8	Х	-	-
C.I. Pigment Red 233 68187-12-2	Х	-	X
Ethanolamine 141-43-5	Х	Х	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other inform	nation				
NFPA HMIS	Health hazards 2 Health hazards 2 *	Flammability Flammability		Instability 0 Physical hazards 0	Special hazards $\ -$ Personal protection $\ X$
Legend Section 8: E TWA TV	reviations and acronyms xposure controls/person VA (time-weighted average aximum limit value	al protection	STEL		n Exposure Limit)
Agency for Toxic Subs U.S. Environmental Pr European Food Safety EPA (Environmental Pr Acute Exposure Guide U.S. Environmental Pr U.S. Environmental Pr Food Research Journa Hazardous Substance International Uniform (National Institute of Te Australia National Indu NIOSH (National Instit National Library of Me National Library of Me National Library of Me National Toxicology Pl New Zealand's Chemi Organization for Econo Organization for Econo World Health Organization	Protection Agency) eline Level(s) (AEGL(s)) rotection Agency Federal In rotection Agency High Prod al Database Chemical Information Data echnology and Evaluation (ustrial Chemicals Notification ute for Occupational Safet dicine's ChemID Plus (NLI dicine's PubMed database rogram (NTP) cal Classification and Infor pomic Co-operation and De pomic Co-operation and De	stry (ATSDR) w Database hsecticide, Fungici duction Volume Ch base (IUCLID) NITE) on and Assessmer y and Health) M CIP) (NLM PUBMED) mation Database (velopment Environ velopment High Pr velopment Screen	de, and Ro nemicals nt Scheme (CCID) ment, Hea roduction V	(NICNAS) Ith, and Safety Publicatio olume Chemicals Progra	
Revision date Revision Note <u>Disclaimer</u> The information prov	13-Sep-2		o the hest	of our knowledge info	rmation and helief at the

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End of Safety Data Sheet