

Safety Data Sheet

Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name

DPD #4R Tablet

Other means of identification

Product Code(s)

6899A

Recommended use of the chemical and restrictions on use

Recommended Use

Use as a laboratory reagent. Industrial (not for food or food contact use), Laboratory

chemicals.

Details of the supplier of the safety data sheet

Manufacturer Address LaMotte Company, Inc. 802 Washington Avenue

P.O. Box 329

Chestertown, MD 21620 USA

T 410-778-3100 F 410-778-9748

Emergency telephone number

24 Hour Emergency Number (CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

Carcinogenicity	Category 1B
Reproductive Toxicity	Category 1B

EMERGENCY OVERVIEW

DANGER

Hazard statements

May cause cancer. May damage fertility or the unborn child.



Appearance White

Physical state solid Tablet

Odor Odorless

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.

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water.

Take off contaminated clothing and wash before reuse

Revision Date Jun-29-2015

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing IF SWALLOWED, Drink 1 or 2 glasses of water, Call a physician immediately

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

Unknown Acute Toxicity

13.1% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Potassium salt		5-10
Potassium iodide	7681-11-0	5-15
Boric acid	10043-35-3	12

Ingredients not specifically listed by name are proprietary to the LaMotte Company, registered under the State of New Jersey Trade Secret protection law, assigned the NJTSRN#80100291-5002p, and may be disclosed only in a medical emergency

4. FIRST AID MEASURES

First Aid Measures

General advice Do not get in eyes, on skin, or on clothing.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Take off

contaminated clothing and wash before reuse. Consult a physician if necessary.

Inhalation Not expected to require first aid measures. Remove to fresh air,

Ingestion Drink plenty of water. Never give anything by mouth to an unconscious person. Consult a

physician if necessary.

Self-protection of the first aider

Use personal protection recommended in Section 8. Ensure that medical personnel are

aware of the material(s) involved, take precautions to protect themselves and prevent

spread of contamination.

Notes to Physician May cause sensitization of susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray, dry chemical, carbon dioxide (CO2), or foam,

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

clothing.

Environmental precautions See Section 12 for additional Ecological Information,

Methods and material for containment and cleaning up

Methods for containment Sweep up in a manner that does not dispurse dust and shovel into suitable containers for

disposal. Dispose according to local regulations, if permitted dissolve in water and rinse to

drain.

Methods for cleaning up After cleaning, flush away traces with water,

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Prevent contact with

skin, eyes, and clothing. Do not taste or swallow, Do not eat, drink, or smoke when using

this product.

Conditions for safe storage, including any incompatibilities

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

of children. Keep away from direct sunlight.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium salt		*	Not Established
Potassium iodide 7681-11-0	TWA: 0.01 ppm	•	Not Established
Boric acid 10043-35-3	6 mg/m³ STEL (inhalable fraction, listed under Borate compounds, inorganic) 6 mg/m³ STEL (inhalable fraction) TWA: 2 mg/m³	*	Not Established

Appropriate engineering controls

Engineering Measures Ensure that eyewash stations and safety showers are close to the workstation location.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles), Avoid contact with eyes.

Skin and body protection Wear latex or nitrile gloves.

Respiratory protection None required under normal usage.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

eyes, skin and clothing. Wear suitable gloves and eye/face protection. Wash hands and

face before breaks and immediately after handling the product,

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

solid Tablet

Appearance White Odor Odorless

Property Values Remarks • Method

pH 6 (1 tablet in 10mL of water)

Melting point / freezing pointNo information availableBoiling point / boiling rangeNo information availableFlash pointNo information available

Flash point

Evaporation rate
Flammability (solid, gas)

No information available
No information available

Flammability Limit in Air
Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
Specific gravity
No information available
No information available
No information available
No information available

Specific gravity No information ava Water solubility Soluble in water

Solubility in other solvents No information available Partition coefficient No information available No information available Autoignition temperature **Decomposition temperature** No information available Kinematic viscosity No information available No information available Dynamic viscosity No information available Explosive properties Oxidizing properties No information available

Other Information

Softening point
Molecular weight
VOC Content (%)
Density
No information available

10. STABILITY AND REACTIVITY

Stability Stable.

Hazardous Reactions Hazardous polymerization does not occur.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Exposure to air or moisture over prolonged periods. Extremes of temperature and direct

sunlight.

Incompatible materials None known based on information supplied.

Hazardous decomposition products Hazardous decomposition products formed under fire conditions -. Hydrogen iodide, lodine,

11. TOXICOLOGICAL INFORMATION

Product Information Product does not present an acute toxicity hazard based on known or supplied information

Information on likely routes of exposure

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium salt	= 2600 mg/kg (Rat)	Not Established	Not Established
Potassium iodide 7681-11-0	Not Established	Not Established	Not Established
Boric acid 10043-35-3	= 2660 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 0.16 mg/L (Rat) 4 h

Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Potassium salt	Not Established	Not Established	Not Established	Not Established
Potassium iodide 7681-11-0	Not Established	Not Established	Not Established	Not Established
Boric acid 10043-35-3	Not Established	Group 2A	Not Established	Х

Chronic toxicity May produce an allergic reaction.

ATEmix (oral) 7099

ATEmix (dermal) 6396 mg/kg Oral Rat LD50: 195mg/kg for N,N-Diethyl-p-phenylenediamine sulfate

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 82 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Potassium salt	2500: 72 h Desmodesmus	750 - 1020: 96 h Pimephales	825: 48 h Daphnia magna mg/L
	subspicatus mg/L EC50	promelas mg/L LC50 static 1060:	EC50 83: 48 h Daphnia magna
		96 h Lepomis macrochirus mg/L	mg/L EC50 Static
		LC50 static	
Potassium iodide 7681-11-0	Not Established	Not Established	Not Established
Boric acid 10043-35-3	Not Established	1020: 72 h Carassius auratus mg/L LC50 flow-through	115 - 153: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow
Potassium salt	Not Established
Potassium iodide 7681-11-0	Not Established
Boric acid 10043-35-3	-0.757

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of waste product or used containers according to local regulations.

Contaminated packaging

Dispose of waste product or used containers according to local regulations.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Potassium salt	Not Established		Not Established	Not Established
Potassium iodide 7681-11-0	Not Established		Not Established	Not Established
Boric acid 10043-35-3	Not Established	-	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Potassium salt	Not Established	Not Established	Not Established	Not Established
Potassium iodide 7681-11-0	Not Established	Not Established	Not Established	Not Established
Boric acid 10043-35-3	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status

Potassium salt	•
Potassium iodide 7681-11-0	
Boric acid 10043-35-3	*

14. TRANSPORT INFORMATION

DOT

Not regulated

IATA

Not regulated

IMDG/IMO

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Does not comply DSL/NDSL Does not comply **EINECS/ELINCS** Does not comply **ENCS** Does not comply **IECSC** Does not comply KECL Does not comply **PICCS** Does not comply AICS Does not comply

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

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any 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 %
Potassium salt	Not Established
Potassium iodide 7681-11-0	Not Established
Boric acid 10043-35-3	Not Established

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium salt	Not Established	Not Established	Not Established	Not Established
Potassium iodide 7681-11-0	Not Established	Not Established	Not Established	Not Established
Boric acid 10043-35-3	Not Established	Not Established	Not Established	Not Established

CERCLA

CFR 122.42)

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

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Potassium salt	*	Not Established	*
Potassium iodide 7681-11-0		Not Established	(8)
Boric acid 10043-35-3	1.51	Not Established	8.

US State Regulations

California Proposition 65

Chemical name	California Proposition 65
Potassium salt	Not Established
Potassium iodide 7681-11-0	Not Established
Boric acid 10043-35-3	Not Established

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Potassium salt	Not Established	Not Established	Not Established
Potassium iodide 7681-11-0	Not Established	Not Established	Not Established
Boric acid 10043-35-3	X	Not Established	Not Established

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

16. OTHER INFORMATION NFPA Health hazard 1 Flammability 0 Instability 0 Physical and Chemical Hazards N/A HMIS Health hazard 1 Flammability 0 Stability 0

Health Hazard	1
Fire Hazard	.0
Reactivity	0

Prepared by Regulatory Affairs Department

Issuing DateJun-01-2015Revision DateJun-29-2015Reason for revisionNew US GHS format

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Material Safety Data Sheet



Safety Data Sheet

Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name

Copper HR Tablets

Other means of identification

Product Code(s)

3701A

Recommended use of the chemical and restrictions on use

Recommended Use

Use as a laboratory reagent. Industrial (not for food or food contact use). Laboratory

chemicals,

Details of the supplier of the safety data sheet

Manufacturer Address LaMotte Company, Inc. 802 Washington Avenue

P.O. Box 329

Chestertown, MD 21620 USA

T 410-778-3100 F 410-778-9748

Emergency telephone number

24 Hour Emergency Number (CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

Carcinogenicity	Category 1B
Reproductive Toxicity	Category 1B

EMERGENCY OVERVIEW

DANGER

Hazard statements

May cause cancer, May damage fertility or the unborn child.



Appearance purple

Physical state solid Tablet

Odor Odorless

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.

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water

Revision Date May-26-2015

Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing IF SWALLOWED, Drink 1 or 2 glasses of water, Call a physician immediately

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant,

Other Hazards

May be harmful if swallowed

Unknown Acute Toxicity

2.7% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Potassium chloride	7447-40-7	20-30
Boric acid	10043-35-3	25
Carbonate salt	-	30-40

LaMotte Company proprietary formulation under the State of New Jersey Trade Secret Protection Law, assigned the NJTSRN 80100291-5014p, and may be disclosed only in a medical emergency

4. FIRST AID MEASURES

First Aid Measures

General advice Do not get in eyes, on skin, or on clothing.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

symptoms persist, call a physician.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Take off

contaminated clothing and wash before reuse. If symptoms persist, call a physician.

Inhalation Remove to fresh air. If symptoms persist, call a physician.

Ingestion Drink plenty of water. Do not induce vomiting without medical advice. Call a physician

immediately. Never give anything by mouth to an unconscious person.

Self-protection of the first aider Use personal protection recommended in Section 8. Ensure that medical personnel are

aware of the material(s) involved, take precautions to protect themselves and prevent

spread of contamination.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Revision Date May-26-2015

Personal precautions

Use personal protection recommended in Section 8.

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent dust cloud.

Methods for cleaning up Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Keep in

suitable and closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Do not taste or

swallow. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using

this product.

Conditions for safe storage, including any incompatibilities

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

of children. Protect from sunlight.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium chloride 7447-40-7	9	₩.	Not Established
Boric acid 6 mg/m³ STEL (inhalable fraction, 10043-35-3 listed under Borate compounds, inorganic) 6 mg/m³ STEL (inhalable fraction) TWA: 2 mg/m³		¥	Not Established
Carbonate salt	-	Þ	Not Established

Appropriate engineering controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles). Avoid contact with eyes.

Skin and body protection Rubber gloves. Nitrile rubber.

Respiratory protection None required under normal usage.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

eyes, skin and clothing. Wear suitable gloves and eye/face protection. Wash hands and

face before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state solid Tablet

Appearance purple Odor Odorless

Revision Date May-26-2015

Values Property Remarks • Method

> 6 No information available pН

Melting point / freezing point No information available Boiling point / boiling range No information available No information available Flash point **Evaporation rate**

Flammability (solid, gas) No information available Flammability Limit in Air

No information available Upper flammability limit: Lower flammability limit: No information available Vapor pressure No information available Vapor density No information available Specific gravity No information available Water solubility Soluble in water

Solubility in other solvents No information available Partition coefficient No information available Autoignition temperature No information available **Decomposition temperature** No information available Kinematic viscosity No information available Dynamic viscosity No information available **Explosive properties** No information available **Oxidizing properties** No information available

Other Information

No information available Softening point No information available Molecular weight **VOC Content (%)** No information available Density No information available **Bulk density** No information available

10. STABILITY AND REACTIVITY

Stability Stable.

Hazardous Reactions Hazardous polymerization does not occur.

Hazardous polymerization does not occur. Hazardous polymerization

Conditions to avoid Exposure to air or moisture over prolonged periods. Extremes of temperature and direct

sunlight. Keep away from children.

Incompatible materials None known based on information supplied.

Hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Component Information

Potassium chloride

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium chloride 7447-40-7	= 2600 mg/kg (Rat)	Not Established	Not Established
Boric acid 10043-35-3	= 2660 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 0.16 mg/L (Rat) 4 h
Carbonate salt	= 1870 mg/kg (Rat)	Not Established	Not Established

Information on toxicological effects

No information available Sensitization NTP OSHA ACGIH IARC Chemical name

Not Established

7447-40-7				
Boric acid 10043-35-3	-	Group 2A	Not Established	X
Carbonate salt	*	Not Established	Not Established	i#1

 ATEmix (oral)
 2699

 ATEmix (dermal)
 8000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 52.1 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemica	l name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Potassium	chloride	2500: 72 h Desmodesmus	750 - 1020: 96 h Pimephales	825: 48 h Daphnia magna mg/L
7447-	40-7	subspicatus mg/L EC50	promelas mg/L LC50 static 1060;	EC50 83: 48 h Daphnia magna
			96 h Lepomis macrochirus mg/L	mg/L EC50 Static
			LC50 static	
Boric	acid	Not Established	1020: 72 h Carassius auratus	115 - 153: 48 h Daphnia magna
10043	-35-3		mg/L LC50 flow-through	mg/L EC50
Carbona	ite salt	Not Established	Not Established	Not Established

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow	
Potassium chloride 7447-40-7	Not Established	
Boric acid 10043-35-3	-0.757	
Carbonate salt	Not Established	

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of waste product or used containers according to local regulations. Can be incinerated, when in compliance with local regulations. Should not be released into the environment.

Contaminated packaging

Dispose of waste product or used containers according to local regulations.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Potassium chloride 7447-40-7	Not Established	7. E 3	Not Established	Not Established
Boric acid 10043-35-3	Not Established	(e)	Not Established	Not Established
Carbonate salt	Not Established	\≨i	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Potassium chloride 7447-40-7	Not Established	Not Established	Not Established	Not Established
Boric acid 10043-35-3	Not Established	Not Established	Not Established	Not Established
Carbonate salt	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Potassium chloride	

7447-40-7	
Boric acid 10043-35-3	
Carbonate salt	(6))

14. TRANSPORT INFORMATION

DOT Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

RID Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies **DSL/NDSL** Complies **EINECS/ELINCS** Does not comply **ENCS** Does not comply **IECSC** Complies KECL Does not comply **PICCS** Complies **AICS** Complies

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

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any 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 % Not Established	
Potassium chloride 7447-40-7		
Boric acid 10043-35-3	Not Established	
Carbonate salt	Not Established	

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

CWA (Clean Water Act)

This product does not contain any substances regulated as poliutants 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
Potassium chloride 7447-40-7	Not Established	Not Established	Not Established	Not Established
Boric acid 10043-35-3	Not Established	Not Established	Not Established	Not Established
Carbonate salt	Not Established	Not Established	Not Established	Not Established

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

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Potassium chloride 7447-40-7	£	Not Established	*
Boric acid 10043-35-3	¥:	Not Established	30
Carbonate salt		Not Established	:#8

US State Regulations

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Potassium chloride 7447-40-7	Not Established	Not Established	Not Established
Boric acid 10043-35-3	Not Established	Not Established	Not Established
Carbonate sait	Not Established	Not Established	Not Established
Staff of the Staff	16. OTHER IN	IFORMATION	

NFPA Health hazard 1 Flammability 0 Instability 0 Physical and Chemical Hazards N/A

HMIS Health hazard 1 Flammability 0 Stability 0



Prepared by Regulatory Affairs Department

 Issuing Date
 May-26-2015

 Revision Date
 May-26-2015

 Reason for revision
 New US GHS format

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Material Safety Data Sheet



Safety Data Sheet

Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name

Hardness T (HR) Tablet

Other means of identification

Product Code(s)

6917A

Recommended use of the chemical and restrictions on use

Recommended Use

Use as a laboratory reagent. Industrial (not for food or food contact use).

Details of the supplier of the safety data sheet

Manufacturer Address LaMotte Company, Inc. 802 Washington Avenue

P.O. Box 329

Chestertown, MD 21620 USA

T 410-778-3100 F 410-778-9748

Emergency telephone number

24 Hour Emergency Number (CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

Serious eye damage/eye irritation

Category 2

EMERGENCY OVERVIEW

WARNING

Hazard statements

Causes serious eye irritation.



Appearance Off-white

Physical state powder

Odor Odorless

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling. Wear eye/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water.

Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED, Drink 1 or 2 glasses of water, Call a physician immediately

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool.

Other Hazards

May be harmful if swallowed Harmful to aquatic life with long lasting effects

Unknown Acute Toxicity

3% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(1-hydroxy-2-naphthalenyl)azo]-7-ni tro-, monosodium salt	1787-61-7	<1
Sodium borate	1330-43-4	4
Aromatic carboxylic acid salt	÷	5
Carbonate salt		13
Potassium salt	#	40-50

Ingredients not specifically listed by name are proprietary to the LaMotte Company, registered under the State of New Jersey Trade Secret protection law, assigned the NJTSRN#80100291-5002p, and may be disclosed only in a medical emergency Excipients not listed by name are non-hazardous and proprietary to the manufacturer

4. FIRST AID MEASURES

First Aid Measures

General advice Do not get in eyes, on skin, or on clothing.

Eye contact Immediately flush eyes with gentle stream of water for at least 15 minutes, occasionally

lifting upper and lower eyelids. If irritation persists or develops, contact a physician,

Skin contact Wash off with warm water and soap. If irritation develops or persists, consult physician.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen, If not breathing, give artificial

respiration and contact emergency personnel.

Ingestion Drink plenty of water. Clean mouth with water, If gastrointestinal distress occurs contact

physician, Consult a physician.

Self-protection of the first aider

Use personal protective equipment. See section 8 for more information. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory

medical device.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray, dry chemical, carbon dioxide (CO2), or foam.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions See section 8. Avoid contact with the skin and the eyes.

Environmental precautions No special environmental precautions required. See Section 12 for additional Ecological

Information.

Methods and material for containment and cleaning up

Methods for containment Prevent dust cloud.

Methods for cleaning up Avoid dust formation. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Prevent contact with

skin, eyes, and clothing. Do not taste or swallow. Do not eat, drink, or smoke when using

this product.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

heat, moisture, and incompatibles. Keep out of the reach of children.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(1-hydroxy-2-naphthalenyl)az o]-7-nitro-, monosodium salt 1787-61-7	f	· ·	Not Established
Sodium borate 1330-43-4	6 mg/m³ STEL (inhalable fraction, listed under Borate compounds, inorganic) 6 mg/m³ STEL (inhalable fraction) TWA: 2 mg/m³	(9)	TWA: 1 mg/m³
Aromatic carboxylic acid salt	2	Q#I	Not Established
Carbonate salt	2:	<u>₩</u>	Not Established
Potassium salt	*	ř :8	Not Established

Appropriate engineering controls

Engineering Measures None under normal use conditions.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear latex or nitrile gloves.

Respiratory protection None required under normal usage.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

eyes, skin and clothing. Wear suitable gloves and eye/face protection. Wash hands and

face before breaks and immediately after handling the product.

Odorless

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

 Physical state
 powder

 Appearance
 Off-white
 Odor

Property Values Remarks • Method

pH 11 (1 tablet in 10mL of water)

Melting point / freezing pointNo information availableBoiling point / boiling rangeNo information available

Flash point No information available Evaporation rate

Flammability (solid, gas) No information available Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
No information available

Vapor density
Specific gravity
Water solubility
Solubility in other solvents
Partition coefficient
No information available
Soluble in water
No information available
No information available

Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity
Explosive properties
No information available

Other Information

Softening point
Molecular weight
VOC Content (%)
Density
No information available

10. STABILITY AND REACTIVITY

Stability Stable.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Exposure to air or moisture over prolonged periods. Temperature extremes.

Incompatible materials None known based on information supplied.

Hazardous decomposition products None under normal use.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Not an expected route of exposure.

Eye contact May cause irritation. Skin contact May cause irritation.

Ingestion May be harmful if swallowed.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(1-hydroxy-2-naphthal enyl)azo]-7-nitro-, monosodium salt	= 17590 mg/kg(Rat)	> 3000 mg/kg(Rabbit)	> 2 mg/L (Rat) 4 h

1787-61-7			
Sodium borate 1330-43-4	= 2660 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	Not Established
Aromatic carboxylic acid salt	= 2100 mg/kg (Rat)	Not Established	Not Established
Carbonate salt	= 4090 mg/kg (Rat)	Not Established	= 2300 mg/m³ (Rat) 2 h
Potassium salt	= 2600 mg/kg (Rat)	Not Established	Not Established

Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(1-hydroxy-2-n aphthalenyl)azo]-7-nitro-, monosodium salt 1787-61-7	Not Established	Not Established	Not Established	Not Established
Sodium borate 1330-43-4	Not Established	Not Established	Not Established	Not Established
Aromatic carboxylic acid salt	Not Established	Not Established	Not Established	Not Established
Carbonate salt	Not Established	Not Established	Not Established	Not Established
Potassium salt	Not Established	Not Established	Not Established	Not Established

Chronic toxicity

None known.

ATEmix (oral)
ATEmix (dermal)

3461 54054 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(1-hydroxy-2-naphthalenyl)az o]-7-nitro-, monosodium salt 1787-61-7	0.094: 72 h Desmodesmus subspicatus mg/L EC50	12.3: 96 h Brachydanio rerio mg/L LC50 static 6: 96 h Pimephales promelas mg/L LC50 static 7.3: 96 h Oncorhynchus mykiss mg/L LC50 static	41.3: 48 h Daphnia magna mg/L EC50
Sodium borate 1330-43-4	2,6 - 21.8: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 158: 96 h Desmodesmus subspicatus mg/L EC50	340: 96 h Limanda limanda mg/L LC50	1085 - 1402: 48 h Daphnia magna mg/L LC50
Aromatic carboxylic acid salt	Not Established	420 - 558: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static	650: 48 h Daphnia magna mg/L EC50
Carbonate salt	242: 120 h Nitzschia mg/L EC50	310 - 1220: 96 h Pimephales promelas mg/L LC50 static 300: 96 h Lepomis macrochirus mg/L LC50 static	265: 48 h Daphnia magna mg/L EC50
Potassium salt	2500: 72 h Desmodesmus subspicatus mg/L EC50	750 - 1020: 96 h Pimephales promelas mg/L LC50 static 1060: 96 h Lepomis macrochirus mg/L LC50 static	825: 48 h Daphnia magna mg/L EC50 83: 48 h Daphnia magna mg/L EC50 Static

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow
1-Naphthalenesulfonic acid,	Not Established
3-hydroxy-4-[(1-hydroxy-2-naphthalenyl)azo]-7-nitro-, monosodium salt	

1787-61-7	
Sodium borate 1330-43-4	Not Established
Aromatic carboxylic acid salt	-2.13
Carbonate salt	Not Established
Potassium salt	Not Established

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of waste product or used containers according to local regulations.

Contaminated packaging

Dispose of waste product or used containers according to local regulations,

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(1-hydroxy-2-n aphthalenyl)azo]-7-nitro-, monosodium salt 1787-61-7	Not Established		Not Established	Not Established
Sodium borate 1330-43-4	Not Established	3.€3	Not Established	Not Established
Aromatic carboxylic acid salt	Not Established	SE:	Not Established	Not Established
Carbonate salt	Not Established	25	Not Established	Not Established
Potassium salt	Not Established	@	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(1-hydroxy-2-n aphthalenyl)azo]-7-nitro-, monosodium salt 1787-61-7	Not Established	Not Established	Not Established	Not Established
Sodium borate 1330-43-4	Not Established	Not Established	Not Established	Not Established
Aromatic carboxylic acid salt	Not Established	Not Established	Not Established	Not Established
Carbonate salt	Not Established	Not Established	Not Established	Not Established
Potassium salt	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(1-hydroxy-2-naphthalenyl)azo]-7-nitro-, monosodium salt 1787-61-7	:=:
Sodium borate 1330-43-4	38)
Aromatic carboxylic acid salt	.0
Carbonate salt	
Potassium salt	©

14. TRANSPORT INFORMATION

DOT

Not regulated

IATA

Not regulated

IMDG/IMO

Not regulated

15. REGULATORY INFORMATION

International Inventories

Complies **TSCA** DSL/NDSL Complies **EINECS/ELINCS** Does not comply Complies **ENCS IECSC** Complies **KECL** Does not comply **PICCS** Complies AICS Complies

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

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any 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 %	
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(1-hydroxy-2-naphthalenyl)azo]-7-nitro-, monosodium salt 1787-61-7	Not Established	
Sodium borate 1330-43-4	Not Established	
Aromatic carboxylic acid salt	Not Established	
Carbonate salt	Not Established	
Potassium salt	Not Established	

SARA 311/312 Hazard Categories

Acute health hazardYesChronic Health HazardNoFire hazardNoSudden release of pressure hazardNoReactive HazardNo

CWA (Clean Water Act)

This product does not contain any substances regulated as 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
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(1-hydroxy-2-n	Not Established	Not Established	Not Established	Not Established

aphthalenyl)azo]-7-nitro-, monosodium salt 1787-61-7				
Sodium borate 1330-43-4	Not Established	Not Established	Not Established	Not Established
romatic carboxylic acid salt	Not Established	Not Established	Not Established	Not Established
Carbonate salt	Not Established	Not Established	Not Established	Not Established
Potassium salt	Not Established	Not Established	Not Established	Not Established

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

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(1-hydroxy-2-naphthal enyl)azo]-7-nitro-, monosodium salt 1787-61-7		Not Established	(=);
Sodium borate 1330-43-4	50	Not Established	ias
Aromatic carboxylic acid salt	*	Not Established	368
Carbonate salt	¥	Not Established	(8)
Potassium salt	*	Not Established	.30

US State Regulations

California Proposition 65

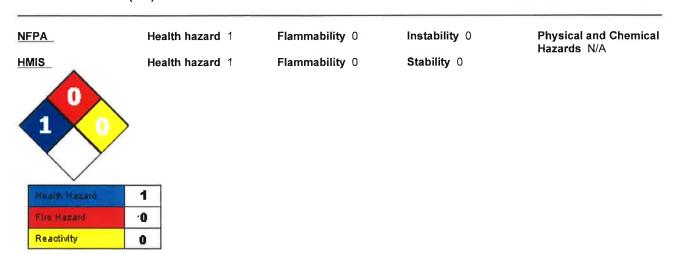
Chemical name	California Proposition 65
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(1-hydroxy-2-naphthalenyl)azo]-7-nitro-, monosodium salt 1787-61-7	Not Established
Sodium borate 1330-43-4	Not Established
Aromatic carboxylic acid salt	Not Established
Carbonate salt	Not Established
Potassium salt	Not Established

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(1-hydroxy-2-naphthal enyl)azo]-7-nitro-, monosodium salt 1787-61-7	Not Established	Not Established	Not Established
Sodium borate 1330-43-4	Not Established	X	X
Aromatic carboxylic acid salt	Not Established	Not Established	Not Established
Carbonate salt	Not Established	Not Established	Not Established
Potassium salt	Not Established	Not Established	Not Established

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

16. OTHER INFORMATION



Prepared by Issuing Date Revision Date Reason for revision Regulatory Affairs Department Jun-01-2015 Jul-24-2015 New US GHS format

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Material Safety Data Sheet



Safety Data Sheet

Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name

Iron (Rapid Dissolve) LR Tablets

Other means of identification

Product Code(s)

3725A

Recommended use of the chemical and restrictions on use

Recommended Use

Use as a laboratory reagent. Industrial (not for food or food contact use), Laboratory

chemicals.

Details of the supplier of the safety data sheet

Manufacturer Address LaMotte Company, Inc. 802 Washington Avenue

P.O. Box 329

Chestertown, MD 21620 USA

T 410-778-3100 F 410-778-9748

Emergency telephone number

24 Hour Emergency Number (CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

Acute toxicity - Dermal	Category 4
Serious eye damage/eye irritation	Category 2A

EMERGENCY OVERVIEW

WARNING

Hazard statements

Harmful in contact with skin. Causes serious eye irritation.



Appearance White

Physical state powder

Odor Slight

Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection. Wash face, hands and any exposed skin thoroughly after handling.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing IF SWALLOWED, Drink 1 or 2 glasses of water, Call a physician immediately

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

Other Hazards

May be harmful if swallowed Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Sodium dithionite	7775-14-6	1
Sodium metabisulfite	7681-57-4	3
Sodium carbonate	497-19-8	3
Adipic acid	124-04-9	21
Potassium chloride	7447-40-7	48

LaMotte Company proprietary formulation under the State of New Jersey Trade Secret Protection Law, assigned the NJTSRN 80100291-5026p, and may be disclosed only in a medical emergency

4. FIRST AID MEASURES

First Aid Measures

General advice Do not get in eyes, on skin, or on clothing. Show this safety data sheet to the doctor in

attendance.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids,

Consult a physician.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Take off

contaminated clothing and wash before reuse. Call a physician immediately,

Inhalation Remove to fresh air. If symptoms persist, call a physician.

Ingestion Drink plenty of water. Consult a physician if necessary. Never give anything by mouth to an

unconscious person.

Self-protection of the first aider

Use personal protection recommended in Section 8. Ensure that medical personnel are

aware of the material(s) involved, take precautions to protect themselves and prevent

spread of contamination.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protection recommended in Section 8.

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and place in container for disposal according to local /

national regulations (see Section 13).

Methods for cleaning up Avoid dust formation. After cleaning, flush away traces with water. Use personal protection

recommended in Section 8,

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice, Do not taste or

swallow. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes

or clothing.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from

incompatible materials. Keep out of the reach of children.

Incompatible Products Acids. Alkalis. Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium dithionite 7775-14-6	<u> </u>	72.	Not Established
Sodium metabisulfite 7681-57-4	TWA: 5 mg/m ³	74	TWA: 5 mg/m ³
Sodium carbonate 497-19-8	-		Not Established
Adipic acid TWA: 5 mg/m³ 124-04-9		7.B.;	Not Established
Potassium chloride 7447-40-7	•.)22	Not Established

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles). Goggles.

Skin and body protection Gloves & Lab Coat, Impervious clothing. Rubber gloves. Nitrile rubber,

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Wash hands before

breaks and immediately after handling the product. Do not eat, drink or smoke when using

nis product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state **Appearance**

powder White

Odor

Slight

Property

Values

Remarks • Method

рΗ Melting point / freezing point Boiling point / boiling range Flash point

No information available No information available No information available

(1 tablet in 10mL of water) Sodium metabisulfite

Evaporation rate Flammability (solid, gas)

Flammability Limit in Air Upper flammability limit: Vapor pressure Vapor density Specific gravity

Lower flammability limit: No information available No information available No information available No information available Water solubility Solubility in other solvents Partition coefficient

Autoignition temperature **Decomposition temperature** Kinematic viscosity Dynamic viscosity **Explosive properties** Oxidizing properties

Soluble in water No information available No information available

No information available

No information available

Other Information

Softening point Molecular weight VOC Content (%) Density **Bulk density**

No information available No information available No information available No information available No information available

10. STABILITY AND REACTIVITY

Stability

Stable under recommended storage conditions.

Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Excessive heat. Exposure to air or moisture over prolonged periods. Keep away from

children.

Incompatible materials

Acids. Alkalis. Strong oxidizing agents.

Hazardous decomposition products Carbon oxides (COx). Sulfur oxides (SOx). Sodium oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium dithionite 7775-14-6	= 2500 mg/kg (Rat)	Not Established	Not Established
Sodium metabisulfite 7681-57-4	= 1310 mg/kg (Rat)	> 2 g/kg (Rat)	Not Established
Sodium carbonate 497-19-8	= 4090 mg/kg (Rat)	Not Established	= 2300 mg/m ³ (Rat) 2 h
Adipic acid	> 11000 mg/kg (Rat) = 2210	> 200 mg/kg (Rabbit)	> 31 mg/L (Rat) 1 h

124-04-9	mg/kg (Rat)		
Potassium chloride 7447-40-7	= 2600 mg/kg (Rat)	Not Established	Not Established

Information on toxicological effects

Sensitization	No informa	tion available		
Chemical name	ACGIH	IARC	NTP	OSHA
Sodium dithionite 7775-14-6	÷	Not Established	Not Established	•
Sodium metabisulfite 7681-57-4	-	Group 3	Not Established	*
Sodium carbonate 497-19-8	*	Not Established	Not Established	*
Adipic acid 124-04-9		Not Established	Not Established	5
Potassium chloride 7447-40-7	5.	Not Established	Not Established	٠.

ATEmix (oral) ATEmix (dermal) 3816 1411 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity
Unknown Aquatic Toxicity 23.8 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Sodium dithionite 7775-14-6	120: 72 h Desmodesmus subspicatus mg/L EC50 87: 96 h Desmodesmus subspicatus mg/L EC50	46 - 68: 96 h Leuciscus idus mg/L LC50 static	98: 48 h Daphnia magna Straus mg/L EC50
Sodium metabisulfite 7681-57-4	40: 96 h Desmodesmus subspicatus mg/L EC50 48: 72 h Desmodesmus subspicatus mg/L EC50	32: 96 h Lepomis macrochirus mg/L LC50 static	89: 24 h Daphnia magna Straus mg/L EC50
Sodium carbonate 497-19-8	242: 120 h Nitzschia mg/L EC50	310 - 1220: 96 h Pimephales promelas mg/L LC50 static 300: 96 h Lepomis macrochirus mg/L LC50 static	265: 48 h Daphnia magna mg/L EC50
Adipic acid 124-04-9	31.3: 72 h Desmodesmus subspicatus mg/L EC50 26.6: 96 h Desmodesmus subspicatus mg/L EC50 35: 96 h Desmodesmus subspicatus mg/L EC50 66: 72 h Desmodesmus subspicatus mg/L EC50	97: 96 h Pimephales promelas mg/L LC50 static 230: 96 h Leuciscus idus mg/L LC50 static 150 - 220: 96 h Leuciscus idus mg/L LC50 static	85.7: 48 h Daphnia magna mg/L EC50 88.4: 48 h Daphnia magna mg/L EC50
Potassium chloride 7447-40-7	2500: 72 h Desmodesmus subspicatus mg/L EC50	750 - 1020: 96 h Pimephales promelas mg/L LC50 static 1060: 96 h Lepomis macrochirus mg/L LC50 static	825: 48 h Daphnia magna mg/L EC50 83: 48 h Daphnia magna mg/L EC50 Static

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow
Sodium dithionite 7775-14-6	Not Established
Sodium metabisulfite 7681-57-4	-3.7
Sodium carbonate 497-19-8	Not Established
Adipic acid 124-04-9	0.081 -0.575 - 0.081
Potassium chloride	Not Established

7447-40-7

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents/containers in accordance with local regulations,

Contaminated packaging

Do not reuse empty containers,

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Sodium dithionite 7775-14-6	Not Established	140	Not Established	Not Established
Sodium metabisulfite 7681-57-4	Not Established	3#3	Not Established	Not Established
Sodium carbonate 497-19-8	Not Established	1995	Not Established	Not Established
Adipic acid 124-04-9	Not Established	:5-	Not Established	Not Established
Potassium chloride 7447-40-7	Not Established		Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Sodium dithionite 7775-14-6	Not Established	Not Established	Not Established	Not Established
Sodium metabisulfite 7681-57-4	Not Established	Not Established	Not Established	Not Established
Sodium carbonate 497-19-8	Not Established	Not Established	Not Established	Not Established
Adipic acid 124-04-9	Not Established	Not Established	Not Established	Not Established
Potassium chloride 7447-40-7	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Sodium dithionite 7775-14-6	(5)
Sodium metabisulfite 7681-57-4	*
Sodium carbonate 497-19-8	-
Adipic acid 124-04-9	*
Potassium chloride 7447-40-7	-

14. TRANSPORT INFORMATION

DOT

Not regulated

IATA

Not regulated

IMDG/IMO

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA

Does not comply

DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Complies

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

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any 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 %	
Sodium dithionite 7775-14-6	Not Established	
Sodium metabisulfite 7681-57-4	Not Established	
Sodium carbonate 497-19-8	Not Established	
Adipic acid 124-04-9	Not Established	
Potassium chloride 7447-40-7	Not Established	

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard Yes

CWA (Clean Water Act)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium dithionite 7775-14-6	Not Established	Not Established	Not Established	Not Established
Sodium metabisulfite 7681-57-4	Not Established	Not Established	Not Established	Not Established
Sodium carbonate 497-19-8	Not Established	Not Established	Not Established	Not Established
Adipic acid 124-04-9	5000 lb	Not Established	Not Established	Х
Potassium chloride 7447-40-7	Not Established	Not Established	Not Established	Not Established

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Sodium dithionite 7775-14-6	•	Not Established	≭
Sodium metabisulfite	=======================================	Not Established	253

7681-57-4			
Sodium carbonate 497-19-8	329	Not Established	-
Adipic acid 124-04-9	5000 lb	Not Established	RQ 5000 lb final RQ RQ 2270 kg final RQ
Potassium chloride 7447-40-7	(*)	Not Established	*

US State Regulations

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Sodium dithionite 7775-14-6	X	X	Х
Sodium metabisulfite 7681-57-4	Х	Х	Х
Sodium carbonate 497-19-8	Not Established	Not Established	Not Established
Adipic acid 124-04-9	Х	Х	Х
Potassium chloride 7447-40-7	Not Established	Not Established	Not Established

NFPA Health hazard 1 Flammability 0 Instability 0 Physical and Chemical Hazards N/A

HMIS Health hazard 1 Flammability 0 Stability 0



Prepared by
Issuing Date
Revision Date
Reason for revision
Regulatory Affairs Department
Feb-10-2015
May-27-2015
Rew US GHS format

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Material Safety Data Sheet



Safety Data Sheet

Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name Wide Range pH Tablets

Other means of identification

Product Code(s) 6459A

Recommended use of the chemical and restrictions on use

Recommended Use Use as a laboratory reagent, Industrial (not for food or food contact use).

Details of the supplier of the safety data sheet

Manufacturer Address LaMotte Company, Inc. 802 Washington Avenue

P.O. Box 329

Chestertown, MD 21620 USA

T 410-778-3100 F 410-778-9748

Emergency telephone number

24 Hour Emergency Number (CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910 1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

EMERGENCY OVERVIEW		
		The state of the s
Appearance brown-gray	Physical state Tablet	Odor None

Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Keep out of reach of children.

IF IN EYES: Rinse cautiously with water for several minutes, Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water.

Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED, Drink 1 or 2 glasses of water, Call a physician immediately

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool.

Unknown Acute Toxicity

99.5% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

LaMotte Company proprietary formulation under the State of New Jersey Trade Secret Protection Law, assigned the NJTSRN 80100291-5074p, and may be disclosed only in a medical emergency

4. FIRST AID MEASURES

First Aid Measures

General advice No hazards which require special first aid measures. Do not get in eyes, on skin, or on

clothing. Keep out of reach of children.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

irritation persists or develops, contact a physician.

Skin contact Wash off with soap and plenty of water removing all contaminated clothes and shoes. If

irritation develops or persists, consult physician.

Inhalation Remove to fresh air, Not an expected route of exposure.

Ingestion Do NOT induce vomiting, Drink plenty of water. Consult a physician.

Self-protection of the first aider Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give

artificial respiration with the aid of a pocket mask equipped with a one-way valve or other

proper respiratory medical device.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO₂, water spray or alcohol-resistant foam.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes, skin and clothing.

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. If local regulations permit,

dissolve and rinse to drain with excess water. After cleaning, flush away traces with water,

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Avoid contact with eyes, skin and clothing. Handle in accordance with good industrial

hygiene and safety practice. Do not taste or swallow. Do not eat, drink, or smoke when

using this product.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place. Keep away from heat.

Protect from moisture. Keep out of the reach of children.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles).

Skin and body protection Protective gloves.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

 Physical state
 Tablet

 Appearance
 brown-gray
 Odor
 None

Property Values Remarks •Method

nH No information available

Melting point / freezing pointNo information availableBoiling point / boiling rangeNo information available

Flash point No information available Evaporation rate

Flammability (solid, gas) No information available

Flammability Limit in Air
Upper flammability limit:

No information available

Lower flammability limit:

Vapor pressure

Vapor density

Specific gravity

Water solubility

Solubility in other solvents

No information available

Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity
Explosive properties
No information available

Other Information

Softening point
Molecular weight
VOC Content (%)
No information available
No information available

Density No information available Bulk density No information available

10. STABILITY AND REACTIVITY

Stability Stable

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Excessive heat. Moisture.

Incompatible materials None known based on information supplied.

Hazardous decomposition products None under normal use.

11. TOXICOLOGICAL INFORMATION

Product Information Product does not present an acute toxicity hazard based on known or supplied information

Information on likely routes of exposure

Component Information

Information on toxicological effects

Carcinogenicity Contains no ingredient listed as a carcinogen.

Chronic toxicity Product does not present a chronic toxicity hazard based on known or supplied information.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 100 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods Dispose of waste product or used containers according to local regulations.

Contaminated packaging Do not reuse empty containers.

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated
IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

Complies **D\$L/ND\$L** Complies **EINECS/ELINCS** Complies

ENCS Does not comply **IECSC** Does not comply **KECL** Does not comply **PICCS** Does not comply Does not comply **AICS**

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SARA 311/312 Hazard Categories

Acute health hazard No Chronic Health Hazard No Fire hazard No Sudden release of pressure hazard No **Reactive Hazard** No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

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

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

16. OTHER INFORMATION

Flammability 0 Instability 0 Physical and Chemical NFPA Health hazard 0 Hazards N/A

HMIS



Issuing Date Revision Date Reason for revision Jun-01-2015 Jun-24-2015 New US GHS format

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End of Material Safety Data Sheet