

M A T E R I A L   S A F E T Y   D A T A   S H E E T

PRODUCT NAME: M1 UNDERGLAZE CHALK CRAYONS  
 PRODUCT CODE: UG CRAYONS (1)

*Revd Jan 2002*

=====  
 SECTION I - MANUFACTURER IDENTIFICATION *621-801/401614*  
 =====

MANUFACTURER'S NAME: AMERICAN ART CLAY CO., INC.  
 ADDRESS : 4717 WEST 16TH STREET  
 INDIANAPOLIS, IN 46222

EMERGENCY PHONE : 800-374-1600  
 INFORMATION PHONE : 800-374-1600

DATE PRINTED : 01/08/02  
 NAME OF PREPARER : L. Jenkins

=====  
 SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION  
 =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
E.P.K. CLAY			
KAOLIN - ACGIH TLV 2mg/m3, OSHA PEL 10 mg/m3 @ DUST	1332-58-7		16.51
FLINT			
QUARTZ: ACGIH TLV .1MG/M3, OSHA PEL .1MG/M3 @ Respirable Dust	14808-60-7		16.51
GEORGIA KAOLIN			
KAOLIN - ACGIH TLV 2mg/m3, OSHA PEL 10 mg/m3 @ DUST	1332-58-7		16.51

Bears the AP Seal. Labeling conforms to ASTM D4236. Exposure may cause damage to the lungs. Cancer agent by inhalation based on laboratory tests. Contains crystalline silica. See Section VI.

=====  
 SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS  
 =====

BOILING RANGE: n/a  
 VAPOR DENSITY: Heavier than air.  
 COATING V.O.C.: 0.00 lb/gl  
 SOLUBILITY IN WATER: Yes.  
 APPEARANCE AND ODOR: ALL CHALKS EXCEPT DK. BLUE & MED. BLUE

SPECIFIC GRAVITY (H2O=1): 0.18  
 EVAPORATION RATE: NA  
 MATERIAL V.O.C.: 0.00 lb/gl

=====  
 SECTION IV - FIRE AND EXPLOSION HAZARD DATA  
 =====

FLASH POINT: n/a  
 FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: n/a  
 EXTINGUISHING MEDIA: N/A

METHOD USED: n/a  
 UPPER: n/a

SPECIAL FIREFIGHTING PROCEDURES  
 No fire hazard.

UNUSUAL FIRE AND EXPLOSION HAZARDS  
 None.

=====  
 SECTION V - REACTIVITY DATA  
 =====

STABILITY: Stable.  
 CONDITIONS TO AVOID  
 None.

INCOMPATIBILITY (MATERIALS TO AVOID)  
 None.

M A T E R I A L   S A F E T Y   D A T A   S H E E T  
M1 UNDERGLAZE CHALK CRAYONS

Page: 2

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS**

Will not occur.

**HAZARDOUS POLYMERIZATION:** Will not occur.

===== SECTION VI - HEALTH HAZARD DATA =====

**INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

None

**SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Rinse eyes thoroughly with water for 15 minutes. Contact physician.

**SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

None.

**INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

No hazardous ingredients.

**HEALTH HAZARDS (ACUTE AND CHRONIC)**

May cause damage to the lungs by inhalation of dust or mist. Cancer agent by inhalation based on laboratory tests. In moist form non-hazardous. WARNING: Detectable amounts of chemical known to the State of California to cause cancer, birth defects, or other reproductive harm may be found in this product. (Prop. 65 California Health & Safety code section 25249.6 ET. SEQ.) Dry clays.

**CARCINOGENICITY:** NTP CARCINOGEN: Yes. IARC MONOGRAPHS: Yes. OSHA REGULATED: No.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

Unknown.

**EMERGENCY AND FIRST AID PROCEDURES**

Contact your local poison control for further health information.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Specific steps not necessary.

**WASTE DISPOSAL METHOD**

Dispose of paper towel in trash and rinse sponge. In manufacturing, dispose of in accordance to local, state and federal regulations.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Store in cool dry place, away from moisture.

**OTHER PRECAUTIONS**

None. IMPORTANT NOTE: Pigments used in this product are formed at high temperature calcination. Frits are produced from the chemical reactions which occur during high temperature smelting of various raw materials to form a molten glass. This glass is rapidly cooled to produce granules or flakes. These may subsequently be milled to produce powdered frit. Frit (glass) is an essentially insoluble substance. Therefore pigments/frits do not necessarily have any of the properties of the components oxides or metals.

===== SECTION VIII - CONTROL MEASURES =====

**RESPIRATORY PROTECTION**

Not needed.

**VENTILATION**

Not needed.

M A T E R I A L   S A F E T Y   D A T A   S H E E T  
M1 UNDERGLAZE CHALK CRAYONS

**PROTECTIVE GLOVES**

Not needed.

**EYE PROTECTION**

Not needed.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

Not needed.

**WORK/HYGIENIC PRACTICES**

Refer to AMACO Safety Manual for further information. Manual available upon request.

===== SECTION IX - DISCLAIMER =====

Information presented herein has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Since conditions of use are beyond our control we make no warranties, expressed or implied, except those that may be contained in our written acknowledgement.



M A T E R I A L   S A F E T Y   D A T A   S H E E T  
M2 UNDERGLAZE CHALK CRAYONS

Page: 2

None.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS**

Will not occur.

**HAZARDOUS POLYMERIZATION:** Will not occur.

===== SECTION VI - HEALTH HAZARD DATA =====

**INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Inhalation exposure may cause respiratory allergies (cobalt). May cause damage to the heart or lungs. Refer to Health Hazards (Acute and Chronic) for further health information. Not for spray application.

**SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Rinse eyes thoroughly with water for 15 minutes. Contact physician.

**SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

None.

**INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Carries the HL seal. If swallowed may cause damage to the heart and lungs. Labeling conforms to ASTM D-4236. TLV has not been established for the whole product.

**HEALTH HAZARDS (ACUTE AND CHRONIC)**

May cause damage to the heart and lungs by ingestion or inhalation of (Black or Dark Blue).

**CARCINOGENICITY:** NTP CARCINOGEN: No. IARC MONOGRAPHS: No. OSHA REGULATED: No.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

Unknown.

**EMERGENCY AND FIRST AID PROCEDURES**

Contact your local poison control for further health information.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Specific steps not necessary.

**WASTE DISPOSAL METHOD**

Dispose of paper towel in trash and rinse sponge. In manufacturing, dispose of in accordance to local, state and federal regulations.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Store in cool dry place, away from moisture.

**OTHER PRECAUTIONS**

None. IMPORTANT NOTE: Pigments used in this product are formed at high temperature calcination. Frits are produced from the chemical reactions which occur during high temperature smelting of various raw materials to form a molten glass. This glass is rapidly cooled to produce granules or flakes. These may subsequently be milled to produce powdered frit. Frit (glass) is an essentially insoluble substance. Therefore pigments/frits do not necessarily have any of the properties of the components oxides or metals.

===== SECTION VIII - CONTROL MEASURES =====

**RESPIRATORY PROTECTION**

Not needed.

M A T E R I A L   S A F E T Y   D A T A   S H E E T  
M2 UNDERGLAZE CHALK CRAYONS

Page: 3

**VENTILATION**

Not needed.

**PROTECTIVE GLOVES**

Not needed.

**EYE PROTECTION**

Not needed.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

Not needed.

**WORK/HYGIENIC PRACTICES**

Refer to AMACO Safety Manual for further information. Manual available upon request.

===== SECTION IX - DISCLAIMER =====

Information presented herein has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Since conditions of use are beyond our control we make no warranties, expressed or implied, except those that may be contained in our written acknowledgement.