

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: UG CRAYONS 209 MED. GREEN  
 PRODUCT CODE: UG 209MGR

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: AMERICAN ART & CLAY CO., INC.  
 ADDRESS: 4717 WEST SIXTEENTH STREET, INDIANAPOLIS, INDIANA 46222  
 EMERGENCY PHONE: (317)244-6871 INFORMATION PHONE: (317)244-6871  
 DATE REVISED : 06-05-95 NAME OF PREPARER : L. Jenkins

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

HAZARDOUS COMPONENTS	CAS NUMBER	OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
		OSHA PEL	ACGIH TLV	OTHER		
*CALCIUM CHROMIUM	68553-01-5	.5mg/M3	.5mg/M3	@ CR	N/A	63.94
ZIRCONIUM COMPOUNDS	7440-67-7		5MG/M3	@ ZR	N/A	
SILICA QUARTZ	14808-60-7	0.1MG/M3	0.1MG/M3	@ respir.	N/A	
MIXED PHASE PIGMENT BLEND	68187-11-1	15mg/M3	10mg/M3	@ AL	N/A	
HYDRATED ALUMINUM SILICATE MINERAL	1302-78-9	15mg/m3	10mg/m3	TOTAL DUST	N/A	
HYDROUS ALUMINUM SILICATE	1332-58-7	10mg/m3	.1mg/m3	@RESP DUST	N/A	
SODIUM POTASSIUM ALUMINUM SILICATE	68476-25-5		0.1mg/m3	@ Silicate	N/A	
SILICON DIOXIDE	14808-60-7		10mg/m3	as Quartz	N/A	
LEADLESS FRIT	65997-18-4	2.5mg/MG3	2.5mg/MG3	@ F	N/A	
HYDRATED ALUMINUM SILICATE	1332-58-7		10MG/M3	@ Silicate	N/A	

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.  
 No hazardous ingredients. Non-toxic. Carries the AP Seal. Labeling conforms to ASTM D4236. Contains crystalline silica.  
 See Section VI. Producers are responsible in complying with FDA guidelines for lead release from tableware.

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

BOILING POINT: N/A SPECIFIC GRAVITY (H2O=1): LESS THAN 2  
 VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE: SLOWER THAN ETHER  
 COATING V.O.C. : N/A  
 SOLUBILITY IN WATER:  
 APPEARANCE AND ODOR: Solid stick

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

FLASH POINT: N/A METHOD USED:  
 FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: NONE KNOWN

SPECIAL FIREFIGHTING PROCEDURES  
 No fire hazard.

UNUSUAL FIRE AND EXPLOSION HAZARDS  
 None.

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

STABILITY: STABLE  
CONDITIONS TO AVOID  
N/A

INCOMPATIBILITY (MATERIALS TO AVOID)  
N/A

HAZARDOUS DECOMPOSITION OR BYPRODUCTS  
None.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

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

## INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

May cause damage to the lungs by inhalation of dust. Probable cancer agent by inhalation of dust based on laboratory tests. In solid form non-hazardous.

## 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

Non-toxic. Carries the AP Seal. Labeling conforms to ASTM D4236. TLV has not been established for the whole product.

## HEALTH HAZARDS (ACUTE AND CHRONIC)

May cause damage to the lungs by inhalation of dust. Probable cancer agent by inhalation of dust based on laboratory tests. In solid form non-hazardous.

CARCINOGENICITY: NTP? YES IARC MONOGRAPHS? YES OSHA REGULATED? NO

Probable cancer agent by inhalation of dust based on laboratory tests. In solid form non-hazardous.

## MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Unknown.

## EMERGENCY AND FIRST AID PROCEDURES

For further information contact your local poison control center.

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

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Does not spill.

WASTE DISPOSAL METHOD

Dispose of in trash.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

None.

OTHER PRECAUTIONS

None.

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

RESPIRATORY PROTECTION

Avoid dust.

VENTILATION

N/A

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 =====

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 be contained in our written acknowledgement.

Continuation for Section VI subsection Carcinogenicity.

The International Agency for Research on Cancer in its publication "IARC Monographs on the Evaluation of the Carcinogenic Risks to Humans - Silica and some Silicates" - Volume 42, 1987, has concluded that there is sufficient evidence for the carcinogenicity of Crystalline Silica in experimental animals, and limited evidence for the carcinogenicity of crystalline silica in humans, and has, therefore, classified crystalline silica in Group 2A of probable carcinogens.

### DEFINITIONS

**Silicate Glass Frit:** Frits are produced from the chemical reactions which occur during the 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 a powdered frit. Frit (glass) is an essentially insoluble substance.

**Pigment:** A pigment is formed by high temperature calcination. Therefore, it does not necessarily have any of its component oxides or metals.

**American Art Clay Co., Inc./Reward® Ceramic Color Mfrs., Co.,** is a member of the Art and Craft Material Institute, 100 Boylston St., Suite 1050, Boston MA 02116. Our art and craft items are certified by the Institute to be labeled in accordance with the voluntary chronic hazard labeling standard ASTM D-4236 (American Society for Testing and Materials). This product is appropriately labeled with the following seal:



Meets ANSI  
Performance Standards

Products bearing the Certified Products Seal or the AP Approved Product Seal of the Art And Craft Materials Institute, Inc., are certified in a program of toxicological evaluation by a medical expert, subject to review by the Institute's Toxicological Advisory Board to contain no materials in sufficient quantities to be toxic or injurious to humans or to cause acute or chronic health problems.

In addition, products bearing the CP Seal meet specific requirements of materials, workmanship, working qualities and color described in the appropriate Product Standard issued by The Art and Craft Materials Institute, Inc. or other recognized standards organization.