

MATERIAL SAFETY DATA SHEET

319

PRODUCT NAME: SEMI-MOIST UNDERGLAZES SET-109

PRODUCT CODE: SNUG109

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 : 05-04-92

NAME OF PREPARER : Laura Jenkins

97-1423

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 | | |
| HYDROUS ALUMINUM SILICATE | 1332-58-7 | 10mg/m3 | .1mg/m3 | | N/A | |
| *ZINC IRON CHROMITE - SPINEL | 68186-88-9 | | | | N/A | < 0.005% |
| *ZINC OXIDE | 1314-13-2 | 15.0mg/m3 | 10.0mg/m3 | | N/A | < 0.5% |
| *CALCIUM CHROMIUM | 68553-01-5 | | | | N/A | < 0.005% |
| ZIRCONIUM COMPOUNDS | | | 5MG/M3 | @ ZR | N/A | |
| SILICA QUARTZ | 14808-60-7 | 0.1MG/M3 | 0.1MG/M3 | @ respir. | 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. Bears the AP Seal with the exception of Med. Blue (HL Seal). Contains cobalt and crystalline silica. See Section VI. Labeling conforms to ASTM D4236.

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 pans

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.

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11/1/96

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

STABILITY: STABLE
CONDITIONS TO AVOID
None.

INCOMPATIBILITY (MATERIALS TO AVOID)
None.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
None.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

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

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Do not breathe dust or mist. May cause damage to heart and lungs (Med. Blue).

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 AP Seal with the exception of Medium Blue (HL Seal). If ingested may cause damage to the heart and lungs.
Labeling conforms to ASTM D4236. 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 dust or mist (Med. Blue).

CARCINOGENICITY: NTP? YES IARC MONOGRAPHS? YES OSHA REGULATED? NO
See page 4 for further information.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
Unknown.

EMERGENCY AND FIRST AID PROCEDURES
Contact your local poison control center for further information.

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11/1/96

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

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Clean with paper towel and wet sponge. Wash with soap and water.

WASTE DISPOSAL METHOD

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

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Always keep lid tight on liquid glazes while in storage. Uncovered glazes will dry out.

OTHER PRECAUTIONS

When using Med. Blue wash hands immediately after use. Do not eat, drink or smoke while using. KEEP OUT OF REACH OF CHILDREN.

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

RESPIRATORY PROTECTION

Avoid dust.

VENTILATION

None.

PROTECTIVE GLOVES

None.

EYE PROTECTION

None.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

None.

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 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.

~~REV 2-8-1993~~

11/1/91

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, 715 Boylston St., 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-4235 (American Society for Testing and Materials). This product is appropriately labeled with the following seal:



JUN 28 1993

11/1/96

Products bearing the Certified Products Seal or the AP Approved Product Seal of the Art and Craft Material 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 The Art and Craft Materials Institute, Inc. or