

MATERIAL SAFETY DATA SHEET

SECTION I. PRODUCT NAME AND MANUFACTURER

TRADE NAMES: Clay, Redart
CHEMICAL NAME: Hydrous Aluminum Silicate

File as: Red ART Clay

PRODUCED BY: CEDAR HEIGHTS CLAY
3542 S. R. 93
P. O. Box 295
Oak Hill, OH 45656-0295

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P. O. Box 108
Norristown, PA 19404

Emergency telephone no.: (614) 682-7794
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Prepared by: SDB 8/87

SECTION II. HAZARDOUS INGREDIENTS

Crystalline Silica (Quartz) 20 - 30% CAS NO. 14808-60-7

Cedar Heights clays may contain free silica in percentages up to 30%, depending on product type. Not all of the free silica will be in respirable size fractions.

SECTION III. PHYSICAL DATA

APPEARANCE AND ODOR: Dark red color with earthy odor

SOLUBILITY IN WATER: Negligible

SPECIFIC GRAVITY: 2.3

BOILING POINT: Not applicable (N/A)

VAPOR PRESSURE: N/A

PERCENT VOLATILE: N/A

MELTING POINT: 2000° F

SECTION IV. FIRE AND EXPLOSION DATA

Non-flammable and non-explosive. This material may actually be used as an extinguishing media.

SECTION V. REACTIVITY DATA

INCOMPATIBILITY (Materials to avoid): No known incompatible materials

DECOMPOSITION PRODUCTS: SO₂, CO and CO₂ gases are liberated when this material is heated in excess of 500° F

POLYMERIZATION: Will not occur

STABILITY: Stable under ordinary conditions

CONDITIONS TO AVOID: Avoid firing (heating) this product in restricted air spaces — fire only in well ventilated areas, preferably in a vented kiln

SECTION VI. HEALTH HAZARD DATA

This product contains free silica. Inhalation of silica in the respirable range represents a potential health hazard. Prolonged exposure above threshold limit values (TLVs) will increase the risk of serious respiratory disease (silicosis).

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TLVs for free silica may be calculated as follows:

$$\text{TLV (total dust)} = 30\text{mg/M}^3 + (\% + 2)$$

$$\text{TLV (respirable dust)} = 10\text{mg/M}^3 + (\% + 2)$$

These formulas were taken from the OSHA Z-3 Table (Mineral Dusts). The percent crystalline silica detected in an air sample is expressed as a whole number in the formulas (%).

CARCINOGENIC ? Not a proven carcinogen

ENTRY ROUTES

ACUTE AND CHRONIC HEALTH EFFECTS OF OVEREXPOSURE

INHALATION

May cause shortness of breath, irritate respiratory tract, aggravate existing lung conditions, promote lung disease

INGESTION

Should not be a problem

SKIN

May aggravate existing skin conditions

EYES

Can abrade and irritate eyes

FIRST AID AND MEDICAL INFORMATION:

Move to fresh air supply

Flush eyes and skin thoroughly with water if any irritation develops

Seek medical attention if condition persists.

SECTION VII. STORAGE, HANDLING, AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: Good housekeeping practices should be maintained to keep dust levels at a minimum

ACTIONS TO BE TAKEN IN CASE OF SPILLS: Dry clean-up maintaining minimum dust levels

WASTE DISPOSAL METHOD: Any approved waste disposal method including burial

SECTION VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If dust levels exceed recommended levels, use NIOSH approved respirators for silica dust

VENTILATION: Local exhaust or other ventilation that will keep dust levels below the recommended limits

EYE PROTECTION: Tight fitting goggles are recommended

SPECIAL VENTILATION: Fire this product only in well ventilated areas, preferably in a vented kiln

SECTION IX. SPECIAL PRECAUTIONS

Minimize dust generation and exposure. Dust levels should be monitored and levels maintained below the recommended exposure limits at all times when this product is being handled or used.

The information and recommendations set forth herein are taken from sources believed to be accurate of the date hereof; however Cedar Heights makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.

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C A U T I O N

This product contains FREE SILICA. Inhalation of this dust in the respirable size range presents a potential health hazard. Excessive inhalation will increase your risk of serious respiratory disease. (**Silicosis**). Primary organ affected/ lungs.

DO NOT BREATHE DUST

Wear a **NIOSH** or **MSHA** approved respirator during handling of this product. For further information, please refer to Material Safety Data Sheet and Safety Manual provided by your employer.

Processed By:

CEDAR HEIGHTS CLAY
OAK HILL, OHIO

