

## MATERIAL SAFETY DATA SHEET

## SECTION I. PRODUCT NAME AND MANUFACTURER

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

PRODUCED BY: CEDAR HEIGHTS CLAY                      Division of RESCO PRODUCTS, INC.  
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## 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: SO<sub>2</sub>, CO and CO<sub>2</sub> 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).

(cont.)

TLV 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.