CEDAR HEIGHTS CLAY

MATERIAL SAFETY DATA SHEET

SECTION I. PRODUCT NAME AND MANUFACTURER

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

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

Division of RESCO PRODUCTS, INC.
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).

(cont'd.)
TLV for free silica may be calculated as follows

\[
\begin{align*}
\text{TLV (total dust)} &= 30\text{mg/m}^3 + (\% + 2) \\
\text{TLV (respirable dust)} &= 10\text{mg/m}^3 + (\% + 2)
\end{align*}
\]

These formulas were taken from the OSHA Table 2.3 (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 at the date thereof. 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.