CEDAR HEIGHTS CLAY

MATERIAL SAFETY DATA SHEET

SECTION I. PRODUCT NAME AND MANUFACTURER

TRADE NAMES: Clay, Bonding Clay, Fireclay, Goldart, Ceramic Grade Fireclay

CHEMICAL NAME: Fireclay, 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
Contact: Technical department
Prepared by: SDB 8/87

SECTION II. HAZARDOUS INGREDIENTS

Crystalline Silica (Quartz) 10 - 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: Medium grey color with earthy odor
SOLUBILITY IN WATER: Negligible
BOILING POINT: Not applicable (N/A)
PERCENT VOLATILE: N/A
SPECIFIC GRAVITY: 2.6
VAPOR PRESSURE: N/A
MELTING POINT: 3000° 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
POLYMERIZATON: 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).

(con't.)
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.

MS887