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MATERIAL SAFETY DATA SHEET

C-1 CLAY

SECTION I - PRODUCT IDENTIFICATION

Trade Name: C-1 CLAY Synonym: Kaolinite

Chemical Family: Alumino Silicate **Formula:** A1₂ Si₂ O₅ (OH)₄

CAS Number: 1302-76-7 **HMIS**: HO* FO RO

SECTION 2 - HAZARDOUS INGREDIENTS

C-1 contains free silica. The current OSHA standard, 8 hour TWA (Respirable Dust) is determined by the formula:

10 $ng/M^3 / \%SiO_2 + 2 \text{ or } 50 \text{ mppcf} / \%SiO_2 + 5$

ACGIH is proposing a TLV of 0.1 mg/M³ (Respirable Dust) or 0.3 mg/M³ (Total Dust). NIOSH has recommended a Permissible Exposure Level of 0.05 mg/M³.

SECTION 3 - PHYSICAL DATA

Boiling Point (°F):
Vapor Pressure (mm Hg):
Vapor Density:
Solubility in Water:
Specific Gravity (H₂O+1):
Percent Volatile by Weight:
Evaporation Rate:
Not Applicable
Not Applicable
2.65
0

Appearance and Odor: White Powder, No Odor

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): Non-flammable
Flammable Limits: LEL - Non-Flammable
UEL - Non-flammable

Extinguishing Media: Water Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: None

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SECTION 5 - HEALTH HAZARD DATA

Threshold Limit Values:

SILICA - 10 mg/ M^3 /%SiO2 + 2, or

50 mppcf / %SiO₂ + 5 (OSHA) 0.1 mg/M³, Respirable Dust (ACGIH) 0.3 mg/M³, Total Dust (ACGIH)

0.05 mg/M³ Recommended PEL (NIOSH)

Effects of Overexposure: Short term overexposure to silica can produce cough, wheezing and dyspnea. Long term overexposure to silica causes silicosis, a form of pulmonary fibrosis. Continued exposure to silica can lead to cardiopulmonary impairment.

Emergency and First Aid Procedures: Wash dust from skin with soap and water. Flush out eyes with generous amounts of water for at least 15 minutes. See a Physician if irritation persists.

SECTION 6 - REACTIVITY DATA

Product is stable. Incompatibility: None

Hazardous Decomposition Products: None Hazardous Polymerization will not occur.

SECTION 7 - SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled: Notify Safety Personnel of major spills. Provide ventilation. Clean-up personnel need protection against eye confact and inhalation of dust. Pick up spills taking care to avoid raising dust clouds (vacuum or wet sweeping is recommended). Place in closed container for disposal.

Waste Disposal Method: Dispose in approved landfill. Disposal must be made in accordance with Federal, State and Local Regulations.

SECTION 8 - SPECIAL PROTECTION INFORMATION

Eye Protection: (Use Most Appropriate): Safety Glasses, Goggles, Face Shield.

Skin Protection: Leather or Rubber Gloves.

Respiratory Protection: Use of dust respirator is recommended when exposure limits

may be exceeded.

Ventilation: Local exhaust ventilation to collector or containment recommended to control dust to below

exposure limits.

SECTION 9 - SPECIAL PRECAUTIONS

Engineering controls should be used to maintain free silica dust exposures below the TLV. When the limits cannot be met, then the employee must utilize a repiratory protection program.

Revision Date: 4/96

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