

MATERIAL SAFETY DATA SHEET

PROFILE Products LLC

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Buffalo Grove, IL 60089
(847) 215-1144 (8:00am to 5:00pm CST)

Section I. Product Identification

Product Name: PROFILE (All Products) **CAS Number:** 12173-60-3
Description: Calcined (Illite) Clay
DOT Class: Not regulated by DOT.

Section II. Hazardous Ingredients

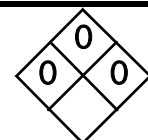
| | % | CAS. NO. |
|---|-------|------------|
| Crystalline Silica (Quartz) [EPA Hazard Category: Health (Chronic)] | 1 - 5 | 14808-60-7 |

Section III. Physical Data

Melting Point: N.A. **Bulk Density:** 38 lbs/ft³
Vapor Pressure: mm Hg - N.A. **Percent Volatile:** None.
Solubility in Water: Negligible.
Appearance & Odor: Brown to buff-colored, odorless, granular particles.

Section IV. Fire and Explosion Hazard Data

PROFILE is an inorganic mineral. It is non-flammable and non-hazardous.



NFPA Code

Section V. Reactivity Data

Stability: PROFILE is stable under all normal conditions.
Hazardous Polymerization: Will not occur.
Incompatibility (Materials to avoid): None.

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Section VI. Health Hazard Data

Exposure Limits:

| | OSHA PEL | ACGIH-TLV |
|-----------------------------|--|--|
| Illite (Calcined Clay): | 15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction) | 10 mg/m ³ (inhalable dust) 3 mg/m ³ (respirable fraction) |
| Crystalline Silica (Quartz) | <u>10 mg/m³</u> %SiO ₂ + 2 (respirable fraction) | 0.1 mg/m ³ (respirable fraction) |

Routes of Entry: Inhalation – Yes Ingestion – No Skin – No

Effects of Overexposure:

Short-Term: As with all nuisance dusts, breathing high concentrations of dust may result in minor irritation of the eyes, nose and throat with symptoms of coughing, sneezing and runny nose.

Long Term: As with any nuisance dust, prolonged inhalation of dust at concentrations higher than the exposure limit may cause delayed lung injury. Prolonged overexposure to respirable crystalline silica can cause silicosis, a permanent, disabling lung disease.

Carcinogen:

OSHA – No NTP – Yes (respirable crystalline silica) IARC – Yes (respirable crystalline silica)

PROFILE (Calcined Clay) is a natural mineral containing less than 5% crystalline silica in the form of quartz (sand). PROFILE contains only a small amount (less than 0.1%) of respirable crystalline silica. Sampling conducted in our mining and manufacturing facilities have shown exposure levels to be below the occupational exposure limits. The International Agency for Research on Cancer (IARC) concluded in Monograph 68 that inhaled crystalline silica is carcinogenic in humans, however, it was noted that carcinogenicity was not detected in all industrial circumstances noted. The National Toxicology Program (NTP) lists crystalline silica (respirable size) as Reasonably Anticipated to be a Human Carcinogen in the Ninth Report on Carcinogens. These identifications are for potential hazard communication purposes and are not assessments of carcinogenic risk.

In October 1999 the California Office of Environmental Health Hazard Assessment issued a safe use determination for crystalline silica in fullers earth-based pet litter. This determination concluded that exposure to crystalline silica (quartz) from the normal use of pet litter composed of clays similar to the clays used in the manufacture of this product did not increase the risk of cancer. Based on this information, Profile Products, LLC does not believe that use of this product under intended conditions of use will result in adverse health effects.

Toxicity Data: No acute toxicity data is available for this product or its components.

First Aid: Eyes - Flush thoroughly with water. See a physician if discomfort persists.

Skin - Wash thoroughly with soap and water.

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Section VII. Spill, Leak and Disposal Information

Steps To Be Taken In Case Material Is Released Or Spilled: If uncontaminated, sweep up or collect, and reuse as product. If contaminated with other materials, collect in suitable containers.

Waste Disposal Method: Can be disposed of in an approved disposal facility, in accordance with applicable federal, state, and local regulations. The nature and extent of contamination, if any, may require use of specialized disposal methods.

Section VIII. Special Protection Information

Respiratory Protection: If dust concentrations exceed recommended Permissible Exposure Limits, use NIOSH-approved dust respirators, with approval TC-21C-xxx, until feasible engineering controls are completed.

Ventilation: Local exhaust or other ventilation that will reduce dust concentrations to less than Permissible Exposure Limits is recommended.

Eye Protection: If high dust concentrations exist, tight-fitting goggles are recommended to reduce dust exposure to the eyes.

Other Protective Equipment: Optional.

Section IX. Special Precautions

NONE.

Section X. SARA Title III Information

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Section 302: Applies: No

TPQ: N.A. EHS: No

Section 304: Applies: No

EHS R.Q.: N.A.

CERCLA R.Q.: N.A.

Section 313: Toxic Release Reporting

Applies: No

RCRA Number: N.A.

This product and/or its components are on the Toxic Substances Control Act Inventory.

Notes: (1) Under CERCLA, releases to air, land or water which exceed the RQ must be reported immediately to the National Response Center, (800) 424-8802.

(2) Section 302 substances exceeding the TPQ must be reported annually on Tier I or Tier II forms to SERC, LEPC and local fire departments by March 1 (annually).

(3) Section 313 substances used in production or manufacturing (25,000 pounds or more annually) or otherwise used (10,000 pounds or more annually) must be reported to the EPA on a Toxic Release Inventory (Form R) by each July 1.

Abbreviations: N.A.: Not Applicable N.E.: None Established UNK: Unknown R.Q.: Reportable Quantity TPQ: Threshold Planning Quantity LEPC: Local Emergency Planning Committee SERC: State Emergency Response Commission EHS: Extremely Hazardous Substance SARA: Superfund Amendments and Reauthorization Act CERCLA: Comprehensive Environmental Response, Compensation and Liability Act RCRA: Resource Conservation and Recovery Act