

MATERIAL SAFETY DATA SHEET

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1. Chemical Product and Company Identification

DESCRIPTION: HOTLINE FLAME-DRI RELEASE
PRODUCT NUMBER: 1591
PRODUCT TYPE: Refractory Coating

Manufacturer/Supplier Information

CREATIVE CRAFTSMEN CO., INC
27625 DIEHL ROAD
WARRENVILLE, ILLINOIS 60555-3838

Emergency Phone Number
1-888-215-4878

2. Composition, Information on Ingredients

The ingredients listed below have been associated with one or more immediate and/or delayed(*) health hazards. Risk of damage and effects depends upon duration and level of exposure. BEFORE USING, HANDLING, OR EXPOSURE TO THESE INGREDIENTS, READ AND UNDERSTAND THE MSDS.

| | % by weight |
|--|-------------|
| 7782-42-5 Graphite | 5-10 |
| 14807-96-6 *Talc | 1-5 |
| 14808-60-7 *Quartz (SiO ₂) | 0.1-0.99 |
| 14940-68-2 *Zircon (Zr(SiO ₄)) | >70 |

3. Hazards Identification

3.1 Emergency Overview

Appearance Cream
Odor Mild, non-descript odor

CAUTION!

Not a significant fire hazard.
May cause eye irritation

HMIS Rating

HEALTH = 1 (slight)
FLAMMABILITY = 0 (minimal)
REACTIVITY = 0 (minimal)
CHRONIC = *

3.2 Potential Health Effects

Immediate Hazards

INGESTION: No hazards known to company.

INHALATION: Not expected to be harmful under normal conditions of use. However, if allowed to become airborne, may cause irritation of nose, throat and lungs.

SKIN: May cause irritation on prolonged or repeated contact.

EYES: May cause irritation on prolonged or repeated contact.

Delayed Hazards

Talc 14807-96-6

Can cause lung damage. Pre-existing respiratory disorders may be aggravated by exposure.

-- See Footnote C.

Quartz (SiO₂) 14808-60-7

CANCER HAZARD. Can cause cancer. Use of this product may generate silica dust (which may be invisible). Inhaled silica has been classified by IARC as a human carcinogen.

Zircon (Zr(SiO₄)) 14940-68-2

Zirconium sands and flours contain trace quantities of naturally occurring radioactive uranium, thorium and radium. Overexposure by inhalation to respirable dusts may cause lung cancer. Observance of the 5 mg/m³ OSHA PEL for respirable dust will ensure that the user is within limits established for exposure to naturally occurring radioactive uranium, thorium and radium.

Footnote C: As of the date of issuance of this document, this material has not been listed by NTP, classified by IARC nor regulated by OSHA as a carcinogen.

4. First Aid Measures

INGESTION: If accidentally swallowed, dilute by drinking large quantities of water. Immediately contact poison control center or hospital emergency room for any other additional treatment directions.

INHALATION: Remove to fresh air.

SKIN: In case of irritation, flush with water.

EYES: Immediately flush eyes with plenty of water. Call a physician if irritation persists.

5. Fire Fighting Measures

| | |
|--------------------------|----------------|
| Flash point | Non-Flammable |
| Lower explosion limit | Not applicable |
| Upper explosion limit | Not applicable |
| Autoignition temperature | Not applicable |

Will not burn.

In case of fire, water should be used to keep fire-exposed containers cool.

6. Accidental Release Measures

Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. For large spills, use water spray to disperse and flush spill area. Prevent runoff from entering waterways or sewers. Use appropriate Personal Protective Equipment (PPE).

7. Handling and Storage

7.1 Handling

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes, skin and clothing.

Wash thoroughly after handling. Always use appropriate Personal Protective Equipment (PPE).

INHALATION: Avoid prolonged or repeated breathing of dried dust.

SKIN: Avoid prolonged or repeated contact with skin and clothing.

EYES: Avoid prolonged or repeated contact with eyes.

7.2 Storage

Keep container closed.

Keep drum out of sun and away from heat.

Keep from freezing.

Store in a cool, dry place.

Empty container may contain product residues. DO NOT cut, torch or reuse without commercial cleaning.

Rotate stock--recommend using within 90 days from date of shipment.

Loosen closure cautiously before opening.

Not harmed by freezing, but thaw frozen product slowly and stir before using.

Use with adequate ventilation.

Do not store near strong oxidizing chemicals.

8. Exposure Controls/Personal Protection

8.1 Exposure Controls

If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and air flow patterns should be provided to keep air contaminant concentration levels below acceptable criteria.

8.2 Personal Protection

Where air contaminants can exceed acceptable criteria, use NIOSH approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air in accordance with OSHA laws and regulations or other applicable standards or guidelines, including ANSI standards regarding respiratory protection. Wear impervious gloves as required to prevent skin contact.

8.3 Exposure Guidelines

Graphite 7782-42-5
ACGIH TLV: 2 mg/m³ TWA, respirable fraction (All forms graphite except fibers)
OSHA PEL: 5 mg/m³ TWA, respirable fraction (Synthetic); 15 mg/m³ TWA, respirable dust (Synthetic); 15 mppcf, respirable fraction (Natural)
REMANDED PEL: 5 mg/m³ TWA, respirable fraction (Synthetic); 10 mg/m³ TWA, total dust (Synthetic); 2.4 mg/m³/(%SiO₂ + 2) mg/m³ TWA, respirable fraction (Natural)
OSHA 1989 PEL remanded, but in effect in some states

Talc 14807-96-6
ACGIH TLV: 2 mg/m³ TWA (containing no asbestos) inhalable particulate, < 1% crystalline silica
OSHA PEL: 20 mppcf (no asbestos) respirable particulate, < 1% crystalline silica
REMANDED PEL: 2 mg/m³ TWA (no asbestos) respirable particulate, < 1% crystalline silica
OSHA 1989 PEL remanded, but in effect in some states

Quartz (SiO₂) 14808-60-7
ACGIH TLV: 0.05 mg/m³ TWA, respirable fraction, A2 - See Appendix A
OSHA PEL: 10/(%SiO₂ + 2) mg/m³ TWA, respirable dust; 30/(%SiO₂ + 2) mg/m³ TWA, total dust
REMANDED PEL: 0.1 mg/m³ TWA, respirable dust
OSHA 1989 PEL remanded, but in effect in some states
OTHER: NIOSH has recommended a permissible exposure limit of 50 micrograms respirable free silica per cubic meter of air (0.05 mg/m³) averaged over a workshift of up to 10 hours per day, 40 hours per week. NIOSH publications, including the NIOSH Criteria Document for Crystalline Silica, should be consulted for more detailed information.

Zircon (Zr(SiO₄)) 14940-68-2
ACGIH TLV: 5 mg/m³ TWA, Compound, as Zr; 10 mg/m³ STEL

8.3 Exposure Guidelines

OSHA PEL: 5 mg/m³ TWA, Compound (as Zr)

REMANDED PEL: 5 mg/m³ TWA, Compound (as Zr); 10 mg/m³ STEL

OSHA 1989 PEL remanded, but in effect in some states

9. Physical and Chemical Properties

| | |
|-------------------------------------|-------------------------|
| Physical state | Liquid |
| Appearance | Cream |
| Color | Black |
| Odor | Mild, non-descript odor |
| Odor threshold | Not available |
| Specific gravity | Greater than 1 |
| pH | Not applicable |
| Viscosity, Brookfield | Not applicable |
| Freezing point | 0 C. (32 F.) (water) |
| Solubility in water | Disperses |
| Octanol/water partition coefficient | Not available |
| Vapor pressure @ 25 C | Not applicable |
| Vapor density (air=1) | Not available |
| Evaporation rate (butyl acetate=1) | Not available |
| Boiling point, 760 mm Hg | 100 C. (water) |

10. Stability and Reactivity

Normally stable as defined in NFPA 704-12(4-3.1).

Incompatibilities:

Strong oxidizers.

Decomposition products may include:

CO, CO₂.

Hazardous polymerization:

Will not occur.

Other Hazards:

None known to company.

11. Toxicological Information

See Section 3 Hazards Identification information.

Graphite 7782-42-5

LC50: Not available

LD50: Not available

Talc 14807-96-6

LC50: Not available

LD50: Not available

11. Toxicological Information

Quartz (SiO₂) 14808-60-7
LC50: Not available
LD50: Not available

Zircon (Zr(SiO₄)) 14940-68-2
LC50: Not available
LD50: Not available

12. Ecological Information

Not determined.

13. Disposal Considerations

Recover free liquid. Absorb residue and dispose of according to local, state/provincial, and federal requirements.

14. Transport Information

14.1 U.S. Department of Transportation (DOT)

The data provided in this section is for information only and may not be specific to your package size. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

Non-Regulated

14.2 Canadian Transportation of Dangerous Goods (TDG)

Non-Regulated.

15. Regulatory Information (Selected Regulations)

15.1 U.S. Federal Regulations

OSHA Hazard Communication Standard 29CFR1910.1200

This material presents possible health hazards as determined when reviewed according to the requirements of the Occupational Safety and Health Administration 29 CFR Part 1910.1200 "Hazard Communication" Standard.

SARA Title III: Section 311/312

Delayed health hazard

SARA Title III Section 313 and 40 CFR Part 372

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

None required per SARA TITLE III SECTION 313.

TSCA Section 8(b) Inventory

All reportable chemical substances are listed on the TSCA Inventory. We rely on certifications of compliance from our suppliers for chemical substances not manufactured by us.

15.2 Canadian Regulations

Workplace Hazardous Materials Information System (WHMIS)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all the information required by the CPR.

CLASS D, DIV 2A, 2B

Canadian Environmental Protection Act (CEPA)

All reportable chemical substances are listed on the Domestic Substances List (DSL) or otherwise comply with CEPA new substance notification requirements.

National Pollutant Release Inventory (NPRI)

This product contains the following chemical(s) subject to the reporting requirements of the Canadian Environmental Protection Act (CEPA) subsection 16(1), National Pollutant Release Inventory.

None required.

16. Other Information

User's Responsibility

The OSHA Hazard Communication Standard 29CFR 1910.1200 and the Workplace Hazardous Materials Information System (WHMIS) require that the information contained on these sheets be made available to your workers. Educate and train your workers regarding OSHA and WHMIS precautions. Instruct your workers to handle this product properly. Consult with appropriate experts to guard against hazards associated with use of this product and its ingredients.

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