

## SAFETY DATA SHEET – CIMENT FONDU

### SECTION 1. IDENTIFICATION

---

<b>Product Identifier</b>	Ciment Fondu
<b>Other Means of Identification</b>	n/a
<b>Recommended Use</b>	Hydraulic binder for concretes and dry-mix mortars; typically used in refractory applications where high-temperature resistance is required, as well as applications that require corrosion resistance.
<b>Restrictions on Use</b>	Professional use only
<b>Supplier Identifier</b>	Multiurethanes Ltd. 5245 Creebank Rd, Mississauga, ON L4W 1N3 (Canada)
<b>Emergency Telephone Number</b>	1-800-663-6633

### SECTION 2. HAZARD IDENTIFICATION

---

**Classification** This substance does not present a physical hazard. Refer to the recommendations regarding the other products present on the site. This substance is not a health hazard except for possible occupational exposure thresholds (see paragraphs 3 and 8).

No labelling requirements are necessary for this substance; however, elements have been added as general safety precautions.

**Label Elements**

Hazard Pictogram



Signal Word

WARNING

Hazard Statement

None

Precautionary Statements

**Prevention**

Wear appropriate protective equipment.  
Avoid breathing dust.  
Wash hands and exposed skin after handling.

**Response**

IF ON SKIN: Remove contaminated clothing. Rinse off affected area with soap and water. Seek medical attention if concerned.  
IF IN EYES: Wash thoroughly with fresh water for at least 15 minutes holding eyelids open. Seek medical attention if concerned.  
IF INHALED: In case of exposure to high concentrations of dust, move the affected person away from the contaminated area and into the fresh air. Seek medical attention if concerned.

## SAFETY DATA SHEET – CIMENT FONDU

### **Storage**

Store in a dry, cool place. Protect from moisture.

### **Disposal**

Dispose of material in accordance with all applicable federal, state/provincial, and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the sole responsibility of the waste generator.

**Other Hazards** Not available

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Composition

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Concentration (% by weight)</u>	<u>Common Names / Synonyms</u>	<u>Other Identifiers</u>
Cement, Alumina, Chemicals	65997-16-2	100%	Not available	EC: 266-045-5

**Notes** Does not contain any detectable quantities of free lime or free crystalline silica (such as quartz, tridymite or cristobalite).

### SECTION 4. FIRST-AID MEASURES

**Inhalation** In case of exposure to high dust concentrations, move the affected person away from the contaminated area and into the fresh air.

**Skin Contact** Watch out for any remaining product between skin and clothing, watches, shoes, etc. Wash with soap.

**Eye Contact** Wash thoroughly with fresh, clean water for 15 minutes, holding the eyelids open. If there is any redness, pain or visual impairment, consult an ophthalmologist.

**Ingestion** Seek medical attention.

**Most Important Symptoms and Effects, Acute and Delayed** The acute symptoms would cause pain in the eyes because of dust entry. If first aid treatment is effective, no delayed effects are anticipated.

**Indication of Immediate Medical Attention and Special Treatment Needed** Treat symptomatically. If exposed or concerned, seek medical advice and attention.

### SECTION 5. FIRE-FIGHTING MEASURES

**Extinguishing Media** There is no restriction on the extinguishing media to be used.

**Specific Hazards Arising from the Product** None. The material is not flammable and does not lead to hazardous thermal decomposition products.

**Special Protective Equipment and Precautions for Firefighters** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## SAFETY DATA SHEET – CIMENT FONDU

### SECTION 6. ACCIDENTAL RELEASE MEASURES

---

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Do not get in the eyes or on the skin. Do not breathe dust. Use appropriate personal protective equipment.
<b>Methods and Material for Containment and Cleaning Up</b>	Retrieve the product by mechanical means (sweeping/vacuuming): do not generate dust.
<b>Notification Procedures</b>	Not available
<b>Environmental Precautions</b>	Prevent material from entering drains or waterways.

### SECTION 7. HANDLING AND STORAGE

---

<b>Precautions for Safe Handling</b>	Good housekeeping is needed during storing, transferring, handling, and using this material to avoid excessive dust accumulation. Handle in accordance with good industrial hygiene and safety procedures. Always wash your hands immediately after handling this product.
<b>Conditions for Safe Storage (including incompatibilities)</b>	Keep the container tightly closed in a cool, well-ventilated place. Keep the container away from dampness.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

---

#### Control Parameters – Occupational Exposure Limits

Chemical Name	Type	Exposure Limit Values	Source
Cement, Alumina, Chemicals	TWA	Respirable particles = 5 mg/m <sup>3</sup> Total particles = 15 mg/m <sup>3</sup>	OSHA PEL
Cement, Alumina, Chemicals	TWA	Respirable particles = 3 mg/m <sup>3</sup> Inhalable particles = 10 mg/m <sup>3</sup>	ACGIH TLV

<b>Appropriate Engineering Controls</b>	Not available
<b>Individual Protection Measures</b>	<p><u>Eye/Face Protection</u> Avoid contact with eyes. Wear protective equipment appropriate to prevent eye contact.</p> <p><u>Skin Protection</u> Wear suitable protective gloves in the event of prolonged or repeated skin contact.</p> <p><u>Respiratory Protection</u> Avoid inhaling dust.</p> <p><u>Hygiene Measures</u> Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or using toilet facilities.</p>

## SAFETY DATA SHEET – CIMENT FONDU

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

---

<b>Appearance</b>	Grey/brown powder or dust
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	Not available
<b>pH</b>	(aqueous solution) 11 - 11.5 (20°C - 10%) (68°F - 10%)
<b>Melting Point / Freezing Point</b>	Melting point = 1300°C (2372°F)
<b>Initial Boiling Point and Boiling Range</b>	Not specified
<b>Flash Point</b>	Not relevant
<b>Evaporation Rate (BuAe = 1)</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not flammable
<b>Upper/Lower Flammability or Explosive Limits</b>	Not explosive
<b>Vapour Pressure</b>	Not relevant
<b>Vapour Density (air = 1)</b>	Not applicable
<b>Relative Density (water = 1)</b>	3.2 - 3.3
<b>Solubility in Water</b>	Partially soluble. <2%
<b>Solubility (other)</b>	Not available
<b>Partition Coefficient, n-octanol / water (logKow)</b>	Not applicable
<b>Auto-ignition Temperature</b>	Not specified
<b>Decomposition Temperature</b>	Not specified
<b>Viscosity</b>	Not applicable

### SECTION 10. STABILITY AND REACTIVITY

---

<b>Reactivity</b>	In the presence of water, calcium aluminates react chemically and harden to form stable calcium aluminate hydrates. This reaction is exo-thermal and may last up to 24 hours. The total heat released is <500 kJ/kg.
<b>Chemical Stability</b>	Stable under recommended handling and storage conditions (refer to section 7).
<b>Possibility of Hazardous Reactions</b>	None under normal conditions.

## SAFETY DATA SHEET – CIMENT FONDU

<b>Conditions to Avoid</b>	Avoid humidity and the formation of dust.
<b>Incompatible Materials</b>	None known
<b>Hazardous Decomposition Products</b>	None known

### SECTION 11. TOXICOLOGICAL INFORMATION

---

<b>Acute Toxicity</b>	Cement has no acute toxicity.
<b>Respiratory and/or Skin Sensitization</b>	Per the requirements of REACH Annex XVII, Art. 47, Cement Alumina Chemicals (CAS: 65997-16-2) do not contain quantities of hexavalent chromium > 2 ppm, measured according to EN 196-10.
<b>Skin Corrosion / Irritation</b>	No observed effect.
<b>Serious Eye Damage / Irritation</b>	No observed effect.
<b>Specific Target Organ Toxicity - Single Exposure</b>	Dust from this product may irritate the respiratory tract.
<b>Specific Target Organ Toxicity - Repeated Exposure</b>	The available evidence for repeated toxicity by oral or inhalation route to the substance does not support a toxic effect.
<b>Reproductive Toxicity</b>	The substance is not considered reprotoxic.
<b>Germ Cell Mutagenicity</b>	No mutagenic effect.
<b>Aspiration Hazard</b>	No data is available.
<b>Information on Likely Routes of Exposure</b>	<u>Inhalation</u> No  <u>Skin Contact</u> No  <u>Eye Contact</u> No  <u>Ingestion</u> No
<b>Signs and Symptoms of Exposure</b>	Not available
<b>Potential Chronic Health Effects</b>	Not available
<b>Carcinogenicity</b>	The substance is not considered carcinogenic.

### SECTION 12. ECOLOGICAL INFORMATION

---

<b>Ecotoxicity</b>	The product must not be allowed to run into drains or waterways.
<b>Persistence and Degradability</b>	After hydration (several hours or several days under humid conditions), the product is stable in soil and water, with negligible mobility of its components.

## SAFETY DATA SHEET – CIMENT FONDU

**Bioaccumulative Potential** It is not relevant because cement is inorganic.

**Mobility in Soil** It is not relevant because cement is inorganic.

**Other Adverse Effects** No other adverse effects are identified.

### SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal Methods** The appropriate waste management of the substance and/or its container must be determined following local regulations. Waste management is done without endangering human health or harming the environment, particularly without risk to water, air, soil, plants, or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste or dispose of waste into the environment.

### SECTION 14. TRANSPORT INFORMATION

<u>Regulation</u>	<u>UN No.</u>	<u>Proper Shipping Name</u>	<u>Technical Name (for N.O.S. entry)</u>	<u>Transport Hazard Class(es)</u>	<u>Packing Group</u>
TDG	None	Not regulated	Not regulated	Not regulated	Not regulated
49 CFR/DOT	None	Not regulated	Not regulated	Not regulated	Not regulated
IMDG	None	Not regulated	Not regulated	Not regulated	Not regulated
ICAO/IATA	None	Not regulated	Not regulated	Not regulated	Not regulated

**Tariff Classification Number** 2523.30.0000

**Special Precautions** Not available

**Environmental Hazards** Refer to section 12.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available

### SECTION 15. REGULATORY INFORMATION

**Canadian Information** Canada inventory (DSL/NDSL)  
Calcium aluminate cement is listed in the DSL inventory.

**US Information** United States Inventory (TSCA)  
All components are listed or exempted.

Clean Water Act: Toxic Pollutants (CWA 307A); Clean Water Act: Hazardous Substances (CWA 311); Clean Water Act: Hazardous Substances (CWA 304b); Clean Water Act: Priority Pollutants (CWA Priority); Clean Air Act: Hazardous Air Pollutants (CAA 112(b) HAP (188)); Clean Air Act: Organic Hazardous Air Pollutants National Emission Standards (CAA 112(b) HON (387)); Clean Air Act: Protection of Stratospheric Ozone (CAA 602)  
Unlisted.

## SAFETY DATA SHEET – CIMENT FONDU

SARA 110; SARA 302/304; SARA 313  
Unlisted.

State Regulations (CA, MA, NJ, PA, RI)  
Unlisted

**International Information** Not available

### SECTION 16. OTHER INFORMATION

---

**Date of Latest Revision** July 4, 2024

**Disclaimer** The information provided in this document is correct to the best of our knowledge, information, and belief at the date of its publication. This information is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition. This information is designed only as general guidance and should not be considered a warranty or quality specification. This information relates only to the specific material designated. Unless specified above, it may not be valid for such material used in combination with other materials or in any process.

---

**END OF SAFETY DATA SHEET**