

SAFETY DATA SHEET – MICROFINE CEMENT

SECTION 1. IDENTIFICATION

Product Identifier	Microfine Cement
Other Means of Identification	SuperFine, ultrafine cement, cementitious grout
Recommended Use	Professional use only
Restrictions on Use	None known
Supplier Identifier	Multiurethanes Ltd. 5245 Creekbank Rd Mississauga, ON L4W 1N3 Canada
Emergency Telephone Number	1-800-663-6633

SECTION 2. HAZARD IDENTIFICATION

Classification	
<u>Skin Corrosion/Irritation</u>	Category 1
<u>Serious Eye Damage/Eye Irritation</u>	Category 1
<u>Specific Target Organ Toxicity – Single Exposure (Respiratory Tract Irritation)</u>	Category 3
<u>Specific Target Organ Toxicity – Repeated Exposure (Respiratory)</u>	Category 1

Label Elements
Hazard Pictograms



Signal Word DANGER

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Hazard Statements

Causes severe skin burns and eye damage.
May cause respiratory irritation.
Causes damage to respiratory organs through prolonged or repeated exposure.

Precautionary Statements

Prevention

Wear appropriate protective equipment.
Avoid breathing dust.
Wash hands and exposed skin after handling.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

Response

IF ON SKIN: Wash with plenty of soap and water. If irritation or rash occurs, seek medical attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.
IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. Seek medical attention.

Storage

Store locked up. Keep away from incompatibles.

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

Mixture

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Concentration (% by weight)</u>	<u>Common Names / Synonyms</u>	<u>Other Identifiers</u>
Portland Clinker	12168-85-3 12042-78-3	<50%	Not available	Not available
Gypsum	7778-18-9	<3%	Not available	Not available
Blast Furnace	65996-69-2	50-80%	Not available	Not available

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Notes This material contains up to 50% of the same substance as Portland Cement (not including asbestos, crystalline silica <1%) (CAS number: 65997-15-1).

SECTION 4. FIRST-AID MEASURES

Inhalation	Move to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if irritation persists or later develops or if discomfort, coughing, or other symptoms subside.
Skin Contact	For dry cement: Remove and rinse abundantly with water. For wet cement: Wash skin with water. Remove contaminated clothing/footwear/jewelry, etc. and clean thoroughly before re-using them. Seek medical treatment if irritation occurs.
Eye Contact	Remove contact lenses if present and open the eyelids widely to flush eyes immediately by thoroughly rinsing with plenty of clean water for at least 15 minutes. Contact an eye specialist.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Have victim rinse mouth with water, then give one to two glasses of water to drink. Seek immediate medical attention.
Most Important Symptoms and Effects, Acute and Delayed	Not available
Indication of Immediate Medical Attention and Special Treatment Needed	When contacting a doctor/physician, take this SDS or the product label with you. If in eyes, contact a specialist of occupational medicine or an eye specialist, preferably an ophthalmologist.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media	
<u>Suitable Extinguishing Media</u>	This product is not combustible.
<u>Unsuitable Extinguishing Media</u>	Not available
Specific Hazards Arising from the Product	Not applicable

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Special Protective Equipment and Precautions for Firefighters Common cement poses no fire-related hazards. Wear complete protective clothing including self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures Wear protective equipment. Keep unprotected persons away. Refer to section 8 for additional information on acceptable personal protective equipment.

Methods and Material for Containment and Cleaning Up Use neutralizing agent. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Carefully sweep up material (avoid generating dust) and place in a chemical container, using a vacuum cleaner.

Notification Procedures Not available

Environmental Precautions Do not allow to enter sewers, surface, or groundwater.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling Store and handle in accordance with all current regulations and standards. Wear suitable protective equipment (protective gloves, boots, glasses, mask) to prevent any contamination of skin or eyes. Rinse mouth and wash hands and face well after use. Provide adequate ventilation in an indoor workplace.

Conditions for Safe Storage (including incompatibilities) Because this product is alkaline, avoid contact with acidic products. Keep away from any possible contact with water. Store in a dry place.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters – Occupational Exposure Limits

Chemical Name	Type	Exposure Limit Values	Source
Gypsum	PEL	5 mg/m ³	Not available
Gypsum	REL	5 mg/m ³	Not available
Gypsum	TLV	10 mg/m ³	Not available

Appropriate Engineering Controls Adequate ventilation must be provided to control airborne contamination level below specified or allowable limit.

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Individual Protection Measures

Eye/Face Protection

Tightly sealed goggles

Skin Protection

The glove material must be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests, no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture. Selection of the glove material must be taken on consideration of the penetration times, rates of diffusion and the degradation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time must be found out by the manufacturer of the protective gloves and has to be observed.

Respiratory Protection

Use a NIOSH-approved respirator “dust mask” in dusty conditions or whenever exposure may exceed established Occupational Exposure Limits.

Hygiene Measures

Do not breathe dust. Do not ingest. Avoid contact with skin, eyes, and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Grayish white powder
Odour	None
Odour Threshold	Not applicable
pH	12-13 (contact with water)
Melting Point / Freezing Point	1350°C (2462°F)
Initial Boiling Point and Boiling Range	Undetermined

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Flash Point	Not applicable
Evaporation Rate (BuAe = 1)	Not available
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limits	Product does not present an explosion hazard
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	2.9-3.1 g/cm ³
Solubility in Water	Insoluble
Solubility (other)	Not available
Partition Coefficient, n-octanol / water (logKow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	Stable under recommended handling and storage conditions (refer to section 7).
Chemical Stability	Stable under recommended handling and storage conditions (refer to section 7).
Possibility of Hazardous Reactions	Reacts with water and acids.
Conditions to Avoid	Avoid direct sunlight.
Incompatible Materials	Water, acids.

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Hazardous Decomposition Products Corrosive gases/vapours.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicological Data – Acute Toxicity	Not available
Respiratory and/or Skin Sensitization	Unable to classify due to lack of data.
Reproductive Toxicity	Unable to classify due to lack of data.
Germ Cell Mutagenicity	Unable to classify due to lack of data.
Carcinogenicity	Unable to classify due to lack of data.
Specific Target Organ Toxicity - Single Exposure	There are reports that Portland cement causes airway irritation (ACGIH (7th, 2010)), but there is no other information.
Specific Target Organ Toxicity - Repeated Exposure	In the inhalation path, a benign pneumoconiosis occurs in humans which can cause bronchitis, respiratory difficulty, cough, phlegm, and emphysema. There is also a report that chest pain is possible (ACGIH (7th, 2010), DFGOTvol.11 (1998)).
Aspiration Hazard	Unable to classify due to lack of data.
Information on Likely Routes of Exposure	
<u>Inhalation</u>	No
<u>Skin Contact</u>	Yes
<u>Eye Contact</u>	Yes
<u>Ingestion</u>	No
Signs and Symptoms of Exposure	<i>Skin Contact</i> Since it exhibits strong alkaline (pH12-13) in contact with water, there could be irritation to the nose, skin, the internal tissues of the nose, and there is a possibility of inflammation in the skin.

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Eye Contact

Since it exhibits strong alkaline (pH12-13) in contact with water, there could be irritation to the eye and the cornea of the eye.

Potential Chronic Health Effects Not available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity There is no useful information about experimentation on animals.

Persistence and Degradability Not available

Bioaccumulative Potential Not available

Mobility in Soil Not available

Other Adverse Effects Slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach groundwater, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or un-neutralized. Large amounts of product into drains or the aquatic environment may lead to increased pH-values. A high pH-value can harm aquatic organisms.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods Must not be disposed of together with household garbage. Do not allow product to reach sewage system. 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.

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	Not regulated	Not applicable	Not applicable	Not applicable	Not applicable

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49 CFR/DOT	Not regulated	Not applicable	Not applicable	Not applicable	Not applicable
IMDG	Not regulated	Not applicable	Not applicable	Not applicable	Not applicable
ICAO/IATA	Not regulated	Not applicable	Not applicable	Not applicable	Not applicable

Tariff Classification Number 2523.90.0000

Special Precautions None reported by the manufacturer.

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 Not available

US Information

United States Inventory (TSCA 8b) All components are listed.

SARA 313 None of the ingredients are listed.

International Information Not available

SECTION 16. OTHER INFORMATION

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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 a general guidance and is not to be considered a warranty or quality specification. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified above.

END OF SAFETY DATA SHEET