

SAFETY DATA SHEET – MICROFINE CEMENT (SUPERFINE)

SECTION 1. IDENTIFICATION

Product Identifier	Microfine Cement (SuperFine)
Other Means of Identification	SuperFine; ultrafine cement;
Recommended Use	Cementitious grout for specialty grouting applications.
Restrictions on Use	Professional use only
Supplier Identifier	Multiurethanes Ltd. 5245 Creekbank Rd, Mississauga, ON L4W 1N3 (Canada) NIPPON STEEL & SUMIKIN CEMENT CO., LTD. 64 Nakamachi, Muroran, Hokkaido, 050-8510 (Japan)
Emergency Telephone Number	1-800-663-6633

SECTION 2. HAZARD IDENTIFICATION

Classification	Skin Corrosion/Irritation - Category 1 Serious Eye Damage/Eye Irritation - Category 1 Specific Target Organ Toxicity – Single Exposure - Category 3 (Respiratory tract irritation) Specific Target Organ Toxicity – Repeated Exposure - Category 1 (Respiratory)
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Label Elements

Hazard Pictograms



Signal Word

DANGER

Hazard Statements

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

Precautionary Statements

Prevention

Keep out of reach of children.
Do not breathe dust.
Wash hands and face thoroughly after handling.
Wear protective gloves and clothing, as well as eye and face protection.
Do not eat, drink or smoke when using this product.

Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a doctor/physician.
IF ON SKIN (or hair): Remove all contaminated clothing immediately. Rinse

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skin with water. Wash contaminated clothing before reuse.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a doctor/physician.
 IF IN EYE: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage
 Store locked up.

Disposal
 Dispose of contents/container in accordance with local/regional/state/federal/national regulations.

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	<50%	Not available	3CaO·SiO ₂
	12042-78-3			3CaO·SiO ₂
	-			3CaO·Al ₂ O ₃
Gypsum	7778-18-9	<3%	Not available	4CaO·Al ₂ O ₃ ·Fe ₂ O ₃
Blast Furnace	65996-69-2	50-80%	Not available	CaSO ₄
				CaO·Al ₂ O ₃ ·MgO·SiO ₂ Amorphous

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 rest in a position comfortable for breathing. Contact a physician 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 reusing them. Seek medical treatment if irritation occurs.

Eye Contact Remove contact lenses (if worn) and open the eyelids widely to flush the eyes immediately by thoroughly rinsing with plenty of clean water for at least 15 minutes. Then, contact an eye specialist.

Ingestion Do not induce vomiting. If a person is conscious, wash their mouth with water and give them plenty of water to drink. Get immediate medical attention or contact an anti-poison centre.

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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. IF IN EYES: Contact an occupational medicine specialist 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
Special Protective Equipment and Precautions for Firefighters	Standard cement poses no fire-related hazards. Wear complete protective clothing, including a self-contained breathing apparatus, and do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Wear protective equipment. Keep unprotected persons away.
Methods and Material for Containment and Cleaning Up	Use a neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Carefully sweep up material (avoid generating dust) and place it in a chemical container using a vacuum cleaner.
Notification Procedures	Not available
Environmental Precautions	Not available

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling	Wear protective equipment (gloves, boots, glasses, mask) to prevent skin or eye contamination. Rinse your mouth and wash your hands and face 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.

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters – Occupational Exposure Limits

Chemical Name	Type	Exposure Limit Values	Source
Gypsum	PEL	Long-term value: 15 mg/m ³ (total dust) Long-term value: 5 mg/m ³ (respirable fraction)	Not available
Gypsum	REL	Long-term value: 10 mg/m ³ (total dust) Long-term value: 5 mg/m ³ (respirable fraction)	Not available
Gypsum	TLV	Long-term value: 10 mg/m ³ (as inhalable fraction)	Not available

Appropriate Engineering Controls Adequate ventilation must be provided to control airborne contamination levels below the specified or allowable limits.

Individual Protection Measures Eye/Face Protection
Tightly sealed goggles

Skin Protection
The glove material must be impermeable and resistant to the product. The selection of the glove material must consider penetration times, diffusion rates and degradation rates. Choosing suitable gloves depends on the material and further quality marks 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, should be checked before the application.

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, and 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 using toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Grayish white powder
Odour	Odourless
Odour Threshold	Not available
pH	12-13 (contact with water)
Melting Point / Freezing Point	Melting point = 1350°C (2462°F)
Initial Boiling Point and Boiling Range	Undetermined
Flash Point	Not applicable
Evaporation Rate (BuAe = 1)	Not available

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Flammability (solid, gas)	Not available
Upper/Lower Flammability or Explosive Limits	The product does not present an explosion hazard.
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density	Density at 20 °C (68 °F): 2.9-3.1 g/cm ³ (24.20-25.87 lbs/gal)
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	Reacts with water to solidify.
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 and acidic products.
Hazardous Decomposition Products	Corrosive gases/vapours.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity	Unable to classify due to lack of data.
Respiratory and/or Skin Sensitization	It is unable to be classified due to a lack of data. Because it contains a minimal amount of chromium compounds, an allergic reaction may occur.
Skin Corrosion / Irritation	Category 1: When it comes into contact with water, it exhibits a strong alkaline (pH12-13) state, which can irritate the nose and skin. The internal tissues of the nose may also be affected, and skin inflammation may occur.
Severe Eye Damage / Irritation	Category 1: When it comes into contact with water, it exhibits a strong alkaline (pH12-13) state, which can irritate the eye. The cornea of the eye may also be affected.

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Specific Target Organ Toxicity - Single Exposure	Category 3 (Respiratory tract irritation): Portland cement is reported to cause airway irritation (ACGIH (7 th , 2010)), but there is no other information.
Specific Target Organ Toxicity - Repeated Exposure	Category 1 (Respiratory): In the inhalation path, benign pneumoconiosis, bronchitis, respiratory difficulties, cough, phlegm, and emphysema occur in humans; there is also a report of chest pain (ACGIH (7 th , 2010), DFGOTvol.11 (1998)).
Reproductive Toxicity	Unable to classify due to lack of data.
Germ Cell Mutagenicity	Unable to classify due to lack of data.
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	<u>Skin Contact</u> Since it exhibits a strong alkaline (pH12-13) reaction in contact with water, irritation to the nose, skin, and internal tissues and inflammation of the skin could occur. <u>Eye Contact</u> Since it is strongly alkaline (pH12-13) in contact with water, it could irritate the eye and cornea.
Potential Chronic Health Effects	Not available
Carcinogenicity	Unable to classify due to lack of data.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	Not available
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 products or large quantities to reach groundwater, water course or sewage system. Large amounts of product in drains or the aquatic environment may increase pH values. A high pH value can harm marine organisms.

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods Dispose of material following 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	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 2523.90.0000

Special Precautions Take the necessary steps to prevent bag breakage, damage, leakage, cargo collapse, etc. Avoid exposure to moisture and water.

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)
All components are listed.

International Information Not available

SECTION 16. OTHER INFORMATION

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END OF SAFETY DATA SHEET