

CHEMFLEX**SECTION 1. IDENTIFICATION**

Product Identifier	CHEMFLEX
Other Means of Identification	SOL-CHEM-FLEX
Recommended Use	Polyurethane for Injection into Civil structures (Concrete).
Manufacturer/Supplier Identifier	BMQ SOLUTIONS, 1522 Boulevard des Laurentides, Laval, Qc, H7M 2N7, Marc Charlebois, 877-267-7249, www.lafarge.ca/en/bmq-solutions
Supplier Identifier	BMQ SOLUTIONS, 1522 Boulevard des Laurentides, Laval, Qc, H7M 2N7, Marc Charlebois, 877-267-7249, www.lafarge.ca/en/bmq-solutions
Emergency Phone No.	Marc Charlebois, 514-705-7198, 24 Hres/ 7 Jours CANUTEC, 613-996-6666, 24HR/7Jours
SDS No.	0226

SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

Classification

Skin irritation - Category 2; Eye irritation - Category 2B; Respiratory sensitization - Category 1; Skin sensitization - Category 1; Carcinogenicity - Category 2; Aquatic hazard (Chronic) - Category 3

Label Elements

Danger

Causes serious eye irritation.

Causes skin irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause respiratory irritation.

Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash hands and skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Use of personal protective equipment as required.

In case of inadequate ventilation wear respiratory protection.

Response:

In Case CONTACT WITH SKIN: Wash thoroughly with water and mild soap.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If skin irritation or rash occurs: Get medical advice/attention.

Call a POISON CENTRE or doctor if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

If eye irritation persists: Get medical advice or attention.

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Take off contaminated clothing and wash it before reuse.

Storage:

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers

Notes

This product contains 0.5% of Diphenylmethane Diisocyanate and oligomers

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Apply artificial respiration if breathing has stopped if exposed or concerned, get medical advice or attention.

Skin Contact

Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely. If skin irritation occurs, get medical advice or attention.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

Do not induce vomiting. Have victim drink water or milk, if conscious never give anything by mouth to unconscious person if vomiting is inevitable, prevent aspiration by keeping the victims head below the knee if exposed or concerned, call a Poison Centre or doctor.

Most Important Symptoms and Effects, Acute and Delayed

If in eyes: may cause moderate to severe irritation. If on skin: skin sensitizer. May cause an allergic skin reaction in some people. If inhaled and/or swallowed: treat symptomatically. There is no specific antidote.

Immediate Medical Attention and Special Treatment

Target Organs

Eyes, respiratory system, skin.

Medical Conditions Aggravated by Exposure

May cause skin sensitization asthma, dermatitis, eye conditions, respiratory conditions, skin allergies.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog. Use water to keep non-leaking, fire-exposed containers cool.

Unsuitable Extinguishing Media

Water.

Specific Hazards Arising from the Product

Flammable in presence of open flame, sparks, excessive heat or static discharge. Closed containers may rupture violently when heated releasing contents.

During fire, gases hazardous to health may be formed.

Special Protective Equipment and Precautions for Fire-fighters

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Approach fire from upwind to avoid hazardous vapours or gases. Knock down vapours or gases with water fog or fine water spray. Review Section 6 (Accidental Release Measures) for important information on responding to leaks/spills. Wear full Bunker gear and respiratory protection (SCBA) Self contained NIOSH approved breathing apparatus should be available for fire fighters.

Fire-fighters should enter area wearing specialized protective equipment. (Bunker Gear will not provide adequate protection.).

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Use the personal protective equipment recommended in Section 8 of this safety data sheet. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Keep spark producing equipment away from area dike area to prevent spreading.

Environmental Precautions

If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Methods and Materials for Containment and Cleaning Up

Review Section 7 (Handling) of this safety data sheet before proceeding with clean-up. Small spills or leaks: contain and soak up spill with absorbent that does not react with spilled product. Dike spilled product to prevent runoff. Large spills or leaks: dike and recover contaminated water for appropriate disposal. Store recovered product in suitable containers that are: tightly-covered.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs. Use adequate ventilation and employ respiratory protection where dust or fumes may be generated avoid release to the environment. Immediately report leaks, spills or failures of the safety equipment (e.g. ventilation system). Do NOT eat, drink or store food in work areas. Do NOT smoke in work areas. It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Conditions for Safe Storage

Avoid dust build up store in an area that is: cool, well-ventilated. Store away from heat and flame separate from incompatible materials (see Section 10: Stability and Reactivity).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls

Use local exhaust ventilation and enclosure, if necessary, to control amount in the air. Breathing Vapours must be avoided. Concentrations greater than TLV can occur when MDI is used in a poorly ventilated area. In such cases, or whenever concentrations of MDI exceed the TLV, respiratory protection must be worn. A supplied air respirator or a positive pressure self-contained breathing apparatus is recommended. In situations where MDI is not sprayed or heated and a supplied air or self-contained apparatus is unavailable or its use impractical, at least an air purifying respirator equipped with an organic cartridge and a particulate filter must be worn. However, this should be permitted only for short periods of time (less than one hour) at relatively low concentrations (at or near the TLV). However, due to the poor warning properties of MDI, proper fit and timely replacement of filter elements must be insured. Observe OSHA Regulations for respirator usage (29 CFR Part 1910.134). Keep exposure levels below the exposure limits provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

Skin Protection

Wear a chemical protective, full-body encapsulating suit and self-contained breathing apparatus (SCBA).

Respiratory Protection

Wear a NIOSH approved air-purifying respirator with N100, R100, or P100 filter(s). Concentrations greater than

TLV can occur when MDI is used in a poorly ventilated area. In such cases, or whenever concentrations of MDI exceed the TLV, respiratory protection must be worn. A supplied air respirator or a positive pressure self-contained breathing apparatus is recommended. In situations where MDI is not sprayed or heated and a supplied air or self-contained apparatus is unavailable or its use impractical, at least an air purifying respirator equipped with an organic cartridge and a particulate filter must be worn. However, this should be permitted only for short periods of time (less than one hour) at relatively low concentrations (at or near the TLV). However, due to the poor warning properties of MDI, proper fit and timely replacement of filter elements must be insured. Observe OSHA Regulations for respirator usage (29 CFR Part 1910.134).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Light yellow.
Odour	Sweet
Melting Point/Freezing Point	Not available (melting)
Initial Boiling Point/Range	537.8 °F (281.0 °C)
Flash Point	> 270 °F (132 °C)
Vapour Pressure	0.0001 mm Hg at 20 °C
Relative Density (water = 1)	1.114
Solubility	Slightly soluble in water; Mildly soluble in common organic solvents.
Viscosity	850 centipoises (dynamic)
Other Information	
Physical State	Liquid
Molecular Formula	Not available
Molecular Weight	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Yes.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Water or humidity. Polymerizes in the presence of Releases a large amount of heat.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources. Water, moisture or humidity. Temperatures above 400.0 °F (204.4 °C)

Incompatible Materials

Alcohols (e.g. ethanol). Amines strong bases (e.g. sodium hydroxide), water.

Hazardous Decomposition Products

When exposed to very high temperatures will release very toxic carbon monoxide, carbon dioxide; extremely hazardous hydrogen cyanide; corrosive, oxidizing nitrogen oxides. mDI vapours.

SECTION 11. TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation

There is limited evidence of very mild irritation.

Serious Eye Damage/Irritation

Animal tests show mild irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure

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Inhalation

Harmful based on limited evidence.

Skin Absorption

Can cause sensitization.

Ingestion

No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

May cause dermatitis, irritation of the respiratory system. Respiratory tract injury has been observed.

Respiratory and/or Skin Sensitization

May cause severe asthma-like symptoms (respiratory sensitization) based on information for closely related chemicals. Skin sensitizer. May cause an allergic reaction (skin sensitization) based on limited evidence.

Germ Cell Mutagenicity

May be mutagenic based on limited evidence.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

May cause long term adverse effects in aquatic environment based on acute toxicity tests.

Persistence and Degradability

Does not degrade rapidly based on quantitative tests.

Bioaccumulative Potential

Rainbow trout, exposure time 112 days fish Bioconcentration Factor: <1.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal Methods**

Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION**SECTION 16. OTHER INFORMATION**

NFPA Rating Health - 2 Flammability - 1 Instability - 1 **Special Hazard - Water-reactive**

SDS Prepared By BMQ SOLUTIONS

Phone No. 877-267-7249

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Key to Abbreviations ACGIH® = American Conference of Governmental Industrial Hygienists
IARC = International Agency for Research on Cancer
NIOSH = National Institute for Occupational Safety and Health
OSHA = US Occupational Safety and Health Administration
RTECS® = Registry of Toxic Effects of Chemical Substances

References CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS).

Disclaimer We declare the information contained herein are correct. However, we decline all responsibility as to the exactness and the usage of the later.

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