

Security data sheet

CHEM SEMI-RIGID

SECTION 1: IDENTIFICATION

Product identifier CHEM SEMI-RIGID

Other means of identification

SOL-CHEM-SEMI-RIGID

Product family

Polyurethane Injection Resin Polyurethane

Recommended use

injection resin - for concrete.

Manufacturer/

BMQ SOLUTIONS, 1522 Boulevard des Laurentides, Laval, Qc, H7M 2N7, Marc Charlebois,

Supplier Identifier

877-267-7249

Supplier identifier

BMQ SOLUTIONS, 1522 Boulevard des Laurentides, Laval, Qc, H7M 2N7, Marc Charlebois,

Emergency telephone

Marc Charlebois, 514-705-7198, 24 Hours / 7 Days CANUTEC, 613-996-6666, 24HR/7Days

number

SDS number 0225

SECTION 2: HAZARDS IDENTIFICATION

Classified according to the Canadian Hazardous Products Regulations (WMIS 2015).

Classification

Acute toxicity (inhalation) - category 4; Skin irritation - category 2; Eye irritation - category 2B; Respiratory sensitization - category 1; Skin sensitization category 1; Carcinogenicity - category 2; Specific target organ toxicity - Single exposure - category 3; Specific target organ toxicity - Repeated exposures - category 2; Long-term hazards for the aquatic environment - category 3 Label elements





Danger

Causes severe eye irritation.

Causes skin irritation.

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

Can cause cutaneous allergy.

May irritate the respiratory tract.

May cause damage to organs (respiratory system) through repeated or prolonged exposure if inhaled.

Harmful to aquatic organisms; causes long-term harmful effects.

Precautionary statement(s):

Prevention:

Obtain instructions before use.

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

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

Wash hands and skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be taken out of the workplace.

Wear safety gloves.

Use of personal protective equipment as required.

When ventilation of the room is insufficient, wear respiratory protection equipment.

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

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Preparation date June 1, 2016 IF IN EYES; Rinse cautiously with water for several minutes. Remove contact lenses if the victim wears them and they can be easily removed. Continue rinsing.

IF exposed or suspected: Seek medical advice/Consult a doctor.

If irritation or rash occurs: Seek medical advice/Consult a doctor.

If eye irritation persists: Seek medical advice or consult a doctor.

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

IF INHALED: Remove person to fresh air and keep in a position where they can breathe comfortably.

Call a Poison Control Center or doctor if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if the victim wears them and they can be easily removed. Continue rinsing.

IF exposed or suspected: Seek medical advice/Consult a doctor.

If irritation or rash occurs: Seek medical advice/Consult a doctor.

If eye irritation persists: Seek medical advice or consult a doctor.

Remove contaminated clothing and wash before reuse.

Storage

Keep under lock and key.

Store in a well-ventilated area. Keep the container tightly closed.

Disposal:

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Blend:

Chemical name	CAS number	%	Other identifiers
Polymer diphenylmethanediisocyanate 4,4'-	9016-87-9	<27	
methylenediphenyl diisocyanate	101-68-8	<22	
Methylenediphenyl diisocyanate (mixture of isomers)	26447-40-5	<6	

SECTION 4: FIRST AID

First aid measures

Inhalation

Remove to fresh air. Give artificial respiration if breathing has stopped.

Skin contact Immediately

remove contaminated clothing, shoes and contaminated leather items (e.g. watch straps, belts). Rinse gently and thoroughly with lukewarm water and mild soap for 5 minutes. Thoroughly wash clothing, shoes and leather items before reuse or dispose of them safely. In case of skin irritation, seek medical advice or consult a doctor. A soothing ointment can be applied after washing the skin.

Eye Contact Immediately

rinse contaminated eyes with lukewarm water, gently, for 15 to 20 minutes, while holding the eyelids open. If eye irritation persists, seek medical advice or consult a doctor.

Ingestion

Do not induce vomiting. If victim is conscious, give water or milk to drink. Never give anything by mouth to an unconscious person. In case of proven or suspected exposure, call a Poison Control Center or a doctor. If vomiting is unavoidable, prevent aspiration by holding the victim's head below the knee.

Most important symptoms and effects, whether acute or delayed in case of

contact with eyes: vapor may cause laceration, conjunctivitis and corneal edema when absorbed into eye tissues may cause irritation moderate to severe. In case of contact with skin: skin sensitizer. May cause an allergic skin reaction in some people. If inhaled and/ or swallowed: may cause serious irritation to the nose and throat.

Immediate medical attention or special treatment

Target organs

Eyes, respiratory system, skin.

Health problems aggravated by exposure to the product May cause skin

sensitization asthma, dermatitis, eye disorders, respiratory disorders, skin allergies.

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SECTION 5: MEASURES TO TAKE IN CASE OF FIRE

Extinguishing Media

Suitable Extinguishing Media Carbon

dioxide, dry chemical powder, suitable extinguishing foam, water spray or water mist.

Use water to cool fire-exposed containers that are not leaking.

Unsuitable extinguishing agents None

known.

Specific Product Hazards Flammable in

the presence of open flames, sparks, excessive heat or electrostatic discharge. Closed containers may rupture violently if heated and may release their contents

In the event of fire, gases dangerous to health may be formed. Personal protective

equipment and precautions for firefighters Approach fire upwind to avoid

hazardous vapors or gases. Control vapors or gases with water spray or a fine mist of water. Review Section 6 (Accidental Release Measures) for important information on controlling leaks and spills. Use Bunker gear and a NIOSH-approved self-contained respiratory protection (SCBA) breathing apparatus should be available to firefighters.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency measures Evacuate the area

immediately. Isolate the danger zone. Do not allow unnecessary or unprotected personnel to enter.

Use the personal protective equipment recommended in Section 8 of this safety data sheet, increase ventilation of the area or move the leaky container to a well-ventilated and safe area.

Keep ignition producing equipment away from the area to contain the area to prevent spread.

Environmental precautions

If spill occurs in a building, prevent product from entering drains, ventilation systems and confined spaces.

Methods and materials for containment and cleaning up Review Section 7

(Handling) of this safety data sheet before cleaning up.

Minor leaks and spills: contain and absorb the spill with an absorbent that does not react with the spilled product. Contain spilled product to prevent runoff. Large leaks or spills: contain and recover contaminated water for proper disposal.

SECTION 7: HANDLING AND STORAGE

Safety Precautions for Handling

Use adequate ventilation and respiratory protection if dust or vapors are present to avoid release into the environment. DO NOT eat, drink or store food in the workplace. DO NOT smoke in the workplace. The following precautions are best practices: avoid breathing the product; avoid skin and eye contact; wash your hands after handling.

Safe storage conditions Avoid accumulation of dust Store in

an area with the following characteristics: cool, well ventilated.

Store away from heat and flame isolated from incompatible materials (see Section 10: Stability and Reactivity). Store away from heat and flame and keep out of direct sunlight.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Settings

	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical name	TWA	STEL	TWA	Ceiling	8-hr TWA TWA	
4,4'-methylenediphenyl diisocyanate 0.051	mg/m3					
Methylenediphenyl diisocyanate (mixture of isomers)	0.005 ppm		0.2ppm			

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ACGIH® = American Conference of Governmental Industrial Hygienists.005 ppm TWA.051 mg/m3 oSHA = United States Occupational Safety and Health Administration. C = Ceiling value.02 ppm.

Appropriate Engineering Controls Avoid

breathing vapors; use an enclosure with local exhaust ventilation, if applicable, to control the amount of product in the air. Concentrations above TLV may occur when MDI is used in a poorly ventilated area. In such cases, or whenever MDI concentrations exceed the TLV, respiratory protection should be worn. A supplied air respirator or positive pressure self-contained breathing apparatus is recommended. In situations where MDI is not sprayed or heated and a supplied air or self-contained device is unavailable or practical, a purifying air respirator equipped with an organic cartridge should at least be worn and a particulate filter should be worn. However,

this should only be permitted for short periods of time (less than an hour) at relatively low concentrations (at or near the TLV). However, due to the low warning properties of MDI, proper adjustment and

timely replacement of filter elements must be ensured. Observe OSHA regulations for the use of a respirator (29 CFR Part 1910.134). Provide eyewash and emergency shower if there is risk of contact or splashing.

Individual protection measures

Eye and face protection Wear chemical

goggles and face shield if contact is possible.

Skin protection Wear

impervious chemical protective clothing and self-contained breathing apparatus (SCBA).

Polychloroprene, Viton®/butyl rubber.

Respiratory protection Wear a NIOSH

approved air-purifying respirator equipped with N100, R100 or P100 filters. Concentrations above TLV may occur when MDI is used in a poorly ventilated area.

In such cases, or whenever MDI concentrations exceed the TLV, respiratory protection should be worn. A supplied air respirator or positive pressure self-contained breathing apparatus is recommended. In situations where MDI is not sprayed or heated and a supplied air or self-contained device is

unavailable or practical, be equipped with at least one purifying air respirator equipped with an organic cartridge and a particulate filter must be worn. However, this should only be permitted for short

periods of time (less than an hour) at relatively low concentrations (at or near the TLV). However, due to the low warning properties of MDI, proper adjustment and timely replacement of filter elements must be ensured.

Observe OSHA regulations for the use of a respirator (29 CFR Part 1910.134).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Basic physical and chemical properties

Appearance Dark brown.

Smell Musty

pH Not available

Melting Point/Freezing Point Not available (merge); Not available (freezing)

Initial boiling point and boiling > 648°F (342°C)

range

Flash point 365°F (185°C)

Upper/Lower Limits of Flammability or

Explosibility

Not available (superior); Not available (lower)

Vapor pressure < 0.00001 mm Hg at 68 °F Not

Vapor density available 1.116

Relative density (water = 1)

Solubility Insoluble in water; Slightly soluble in usual organic solvents.

Decomposition temperature Not available

Viscosity 70 centipoise at 20°C (dynamic)

Other information

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Other information Physical

stateLiquidMolecular formulaNot availableMolecular weightNot availableCritical temperatureNot available

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Yes.

Chemical stability

Usually stable.

Risk of hazardous reactions Water

or moisture. Polymerizes in the presence of: Releases a significant amount of heat.

Conditions to avoid

Open flames, sparks, electrostatic discharge, heat and other sources of ignition. Water, water content or humidity. Temperatures above 400.0°F (204.4°C)

Incompatible materials

Alcohols (e.g. ethanol). Strong basic amines (e.g. sodium hydroxide), water, metals (e.g. aluminum). Copper alloys.

Hazardous decomposition products

When exposed to very high temperatures will release very toxic carbon monoxide and carbon dioxide; extremely dangerous hydrocyanic acid; nitrogen oxides. MDI steam.

SECTION 11: TOXICOLOGICAL DATA

acute toxicity

Chemical name	CL50	LD50 (oral)	LD50 (cutaneous)
Methylenediphenyl diisocyanate (mixture of isomers	> 380 mg/m3 (rat) (4 s) (aerosol)	> 2000 mg/m3 (rat)	> 9400 mg/kg (rabbit)

LC50 (Inhalation): 490 mg/m3, vapor, Rat 4 Hrs

Skin Corrosion/Irritation

There is limited evidence of very mild irritation.

Serious Eye Damage/Eye Irritation Animal

tests show slight irritation.

Specific Target Organ Toxicity - Single Exposure

Inhalation

Harmful based on limited evidence.

Absorption through the skin

May cause sensitization.

Ingestion

No information found.

Specific target organ toxicity - Repeated exposure May cause

dermatitis, irritation of the respiratory system. Cases of respiratory tract damage have been observed.

Respiratory or skin sensitization May

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

SECTION 12: ECOLOGICAL DATA Ecotoxicity

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Ecotoxicity

May cause long-term adverse effects in the aquatic environment.

Persistence and Degradation Does

not degrade rapidly, based on quantitative testing.

SECTION 13: DISPOSAL DATA

Disposal methods Dispose of

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

SECTION 14: TRANSPORT INFORMATION

Not governed by the Canadian Transportation of Dangerous Goods Regulations.

Special precautions Not applicable Transport

in bulk under Annex II of MARPOL 73/78 and the IBC Code Not applicable

SECTION 15: REGULATORY INFORMATION

SECTION 16: OTHER INFORMATION

NFPA Hazard Rating Health - 2 Flammability - 1

Health - 2 Flammability - 1 Instability - 1 individual - Reacts with water

SDS prepared by BMQ SOLUTIONS

Phone number 877-267-7249
Preparation date June 1, 2016

Date of most June 01, 2016 recent revised version

Meaning of ACGIH® = American Conference of Governmental Industrial Hygienists IARC = International Agency for

abbreviations Research on Cancer NIOSH = National Institute for

Occupational Safety and Health OSHA = United States Occupational Safety and Health Administration RTECS® =

Registry of Toxic Effects of Chemical Substances

Database CHEMINFO data. Canadian Center for Occupational Health and

References Safety (CCOHS).

NIOSH Pocket Guide Database. National Institute for Occupational Safety and Health. Accessible through the Canadian Center for Occupational Health and Safety (CCOHS).

Notice We believe the above information to be accurate. However, we decline all responsibility for

the reliability and use of these

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