Material Safety Data Sheet INS

**INSULTHANE 200 PART A** 

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# Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical Name: Polymeric MDI

Manufacturer: Elastochem Specialty Chemicals Inc.

37 Easton Road

Brantford, Ontario N3P 1J4

Phone (519) 754-1678 Fax (519) 754-4487

Supplied by: Elastochem Specialty Chemicals Inc.

Emergency Telephone #: Chemtrec Emergency Number: 800-424-9300

Intended use of Product: Component of a Foam Insulation System

#### Section 2: COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient	% (w/W)	CAS #	Exposure	LD50/LC50
			Limit	
Diphenylmethane	1-5	026447-	TWA	Not
diisocyanate (MDI)		40-5	0.005PPM	available/
			PEL	172-
			0.02PPM	187mg/m3
				4 hr (Rat)
Polymethylene	40-55	009016-	Not	>2000mg/kg
polyphenyl		87-9	available	(oral,rat)/
isocyanate				490 mg/m3
				4 hr
				(Inh: rat)
4'4'-Diphenyl	30-45	101-68-	TWA 0.005	>10000mg/kg
methane diisocyante		8	PPM	(Oral,rat)/
			PEL 0.02	490 mg/m3
			PPM	4 hr (rat)

# Consult local authorities for acceptable exposure limits

# Section 3: HAZARDS IDENTIFICATION

Routes of Entry: Eye contact, Skin contact, Ingestion, Inhalation. Acute Effects:

Eye Contact: May cause slight irritation.

Skin Contact: Prolonged or repeated exposure may cause

skin irritation.

Inhalation: Excessive exposure may cause irritation of the

upper respiratory tract and lungs.

Ingestion: Toxicity is low for ingestion

Chronic Effects: Chronic exposure to MDI may cause respiratory

sensitization in susceptible individuals.

See toxicological information (section 11)

# Section 4: FIRST AID MEASURES

**Skin:** Clean exposed area with soap and water. Remove contaminated clothing and seek medical attention if irritation develops.

**Eyes:** Immediately flush thoroughly with water for at least 20 minutes lifting eye lids occasionally. Get prompt medical attention.

Inhalation: Remove to fresh air; give artificial respiration if not breathing. Get medical attention.

**Ingestion:** Do not induce vomiting. If conscious, give victim 2 glasses of water. Never give anything to an unconscious person. Get medical attention immediately.

#### Section 5: FIRE FIGHTING MEASURES

Means of Extinction: Use large amounts of water spray, foam, dry chemical, or CO2. Water spray to cool fire-exposed containers.

Special Procedures: None

Flashpoint: 199 °C

Flammable Limits LEL (%): Not available Flammable Limits UEL (%): Not available Auto Ignition Temperature: Not available.

Hazardous Combustion Products: May produce carbon dioxide, carbon monoxide, oxides of nitrogen, dense black smoke, hydrogen cyanide, Isocyanates, Isocyanic Acid.

Sensitivity to Mechanical Impact: Not available Sensitivity to Static Discharge: Not available

#### Section 6: ACCIDENTAL RELEASE MEASURES

#### Spill or leak Procedure:

Evacuate all non essential personnel. Ventilate. Eliminate all sources of ignition. Dike area to prevent spreading. Stop leak if safe to do so. Wear full protective equipment, including respiratory equipment during clean up. Prevent runoff into drains, sewers, and other waterways.

# Section 7: HANDLING AND STORAGE

#### Handling & Storage:

Store in a cool dry place away from any source of ignition. Handle in a well ventilated area with local exhaust. Wear all personal protective equipment. Storage temperature (Min/Max:  $10/38^{\circ}$ C).

Special Shipping information: None

#### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTIONS

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Personal Protective Equipment: A positive pressure, supplied air respirator is required. An air purifying respirator is generally not recommended based on the poor warning properties of the product. At least an air-purifying respirator equipped with an organic vapour cartridge and particulate pre-filters must be worn. Engineering controls: Local exhaust ventilation is recommended.

#### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Odour: Musty Odour

Appearance: Brown Liquid

Physical State: Liquid

Odour Threshold: 200 ppm

Vapour Density: No Data

Evaporation Rate: 3.6

Solubility in Water: NIL

Volatile by Volume: 55-75%

Specific Gravity: 1.24 @25°C Boiling Point: 208°C

Freezing Point: < 0 °C pH: N/A

Viscosity: 50-100 cps Vapour Pressure: <0.0001mmHg @20°C

#### Section 10: STABILITY AND REACTIVITY

Chemical Stability: Product is stable under normal conditions. Conditions to avoid(if unstable): High temperatures, open flames and sparks.

Incompatibility (Materials to avoid): Water, amines, strong bases,
alcohols. Copper Alloys.

Hazardous decomposition Products: Carbon Monoxide, carbon dioxide, oxides of nitrogen, dense black smoke, hydrogen cyanide, isocyanates, isocyanic acid.

Hazardous Polymerization: Polymerization will not occur.

# Section 11: TOXICOLOGICAL INFORMATION

LD50: oral-rat >2000 mg/Kg
LC50: inhalation-rat 490 mg/m3

Carcinogenicity: Not listed by IARC, NTP or regulated as a

carcinogen by OSHA.

Teratogenicity: None Known.

Reproductive Effects: Not available.

Mutagenicity: None Known.

# Section 12: ECOLOGICAL INFORMATION

Ecological data is based on polymeric MDI.

Biodegradability: 0% Exposure Rate: 28 days

Bioaccumulation: Rainbow trout. Exposure time: 112 days, <1 BCF.

Does not bioaccumulate.

Fish Toxicity: LCO: >1000 mg/l, 96 hr, Zebra Fish Fish Toxicity: LCO: >3000 mg/l, 96 hr, Killifish

Fish Toxicity: EC50: >1000 mg/l, 24 hr, Daphnia magna

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# Section 13: DISPOSAL CONSIDERATIONS

# Disposal Procedure:

Comply with Federal, provincial, and local regulations on reporting releases.

Consult your local or regional authorities.

#### Section 14: TRANSPORT INFORMATION

TDG (TRANSPORATION OF DANGEROUS GOODS) CLASSIFICATION: Not Regulated

#### Section 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION: D2A, D-2B
Domestic Substance List(DSL):Yes

# Section 16: OTHER INFORMATION

References: Canadian Guide of the Law and Regulations of the Transportation of Dangerous Goods. Controlled products regulations. Manufacturer's Material Safety Data Sheet. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Other special considerations: No additional remark

Regulatory Affairs Department: 519-754-1678

DATE: April 12, 2016 REVISION 7

PREPARED BY: Regulatory Affairs group,

Elastochem Specialty Chemicals Inc.

Material Safety Data Sheet INSULTHANE

**INSULTHANE 200 PART B** Page 1 of 4

# Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Elastochem - Insulthane 200 Part B

Chemical Name: Polymeric Resin

Manufacturer: Elastochem Specialty Chemicals Inc.

37 Easton Road

Brantford, Ontario N3P 1J4

Phone (519) 754-1678 Fax (519) 754-4487

Supplied by: Elastochem Specialty Chemicals Inc.

Emergency Telephone #: Chemtrec Emergency Number: 800-424-9300

Intended use of Product: Component of a Foam Insulation System

#### Section 2: COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient	Approximate	CAS #	Exposure	LD50/LC50
	Concentration		Limits	
Hydrofluoro-	7-13%	460-73-1	Not	>20 000ppm
carbon			available	4hr (rat)/
				Not
				available
2-Butoxyethanol	1-5%	111-76-2	Not	470 mg/kg
			available	(rat) /
				450
				ppm/4hr
				(rabbit)

Consult local authorities for acceptable exposure limits

#### Section 3: HAZARDS IDENTIFICATION

Routes of Entry: Eye contact, Skin contact, Ingestion, Inhalation. Acute Effects:

Eye Contact: Causes eye irritation. May cause temporary

fogging of the eyes.

Skin Contact: Causes skin irritation.

Inhalation: May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Chronic Effects: Overexposure to vapour may cause central nervous system depression. Overexposure may cause irregular heartbeat. Chronic exposure may cause blood disorders. Chronic ingestion may cause kidney and liver damage.

See toxicological information (section 11)

#### Section 4: FIRST AID MEASURES

**Skin:** Clean exposed area with soap and water. Remove contaminated clothing and seek medical attention if irritation develops.

**Eyes:** Immediately flush thoroughly with water for at least 20 minutes lifting eye lids occasionally. Consult a physician if irritation continues.

**Inhalation:** Remove to fresh air; give artificial respiration if not breathing. Get medical attention.

Ingestion: Do not induce vomiting. Get medical attention
immediately.

#### Section 5: FIRE FIGHTING MEASURES

Means of Extinction: Carbon dioxide, dry chemical, foam. In case of larger fires, water spray should be used.

**Special Fire Fighting Procedures:** Firefighter should be equipped with self contained breathing apparatus to protect against potentially toxic and irritating fumes. Cool fire exposed containers with cold water spray.

Flashpoint: Not available.

Flammable Limits LEL (%): Not available Flammable Limits UEL (%): Not available Auto Ignition Temperature: Not available.

Hazardous Combustion Products: May produce carbon dioxide, carbon

monoxide, oxides of nitrogen. Dense black smoke. Other

potentially toxic fumes.

Sensitivity to Mechanical Impact: Not applicable. Sensitivity to Static Discharge: Not applicable.

# Section 6: ACCIDENTAL RELEASE MEASURES

#### Spill or leak Procedure:

Evacuate all non essential personnel. Utilize recommended protective clothing. Avoid breathing vapours and skin contact. Dike area to prevent spreading. Cover spill with inert material and collect for proper disposal. Wash area with soapy water and rinse. Prevent runoff into drains, sewers, and other waterways.

# Section 7: HANDLING AND STORAGE

# Handling & Storage:

Store in a cool dry place away from any source of ignition. Handle in a well ventilated area with local exhaust. Wear all personal protective equipment. Storage temperature (Min/Max:  $18/29^{\circ}$ C).

Special Shipping information: None

**INSULTHANE 200 PART B** 

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#### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTIONS

Personal Protective Equipment: Safety glasses, chemical resistant gloves, protective clothing.

**Ventilation:** Local exhaust ventilation is recommended to prevent overexposure.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Odour: Amine Odour Vapour Density: Not Available
Appearance: Green Liquid Evaporation Rate: Not Available
Physical State: Liquid Vapour Pressure: Not Available

Odour Threshold: Not Available Solubility in Water: Not

Available

Specific Gravity: Not Available % Volatile by Volume: Not

Available

Freezing Point: Not Available Viscosity: Not Available Boiling Point: Not Available

N/A - Not Available

#### Section 10: STABILITY AND REACTIVITY

Chemical Stability: Product is stable under normal conditions. Conditions to avoid(if unstable): High temperatures, open flames and sparks.

Incompatibility (Materials to avoid): Oxidizing agents,
isocyanates.

Hazardous decomposition Products: Carbon Monoxide, carbon dioxide, oxides of nitrogen. Dense black smoke. Other potentially toxic fumes.

Hazardous Polymerization: Polymerization will not occur.

#### Section 11: TOXICOLOGICAL INFORMATION

LD50: Not available LC50: Not available

Carcinogenicity: The components of this product are not listed by

IARC, NTP or regulated as a carcinogen by OSHA.

Teratogenicity: Not available.

Reproductive Effects: Not available.

Mutagenicity: Not available.

# Section 12: ECOLOGICAL INFORMATION

Fish toxicity: Not available Biodegradability: Not available

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# Section 13: DISPOSAL CONSIDERATIONS

# Disposal Procedure:

Comply with Federal, provincial, and local regulations on reporting releases.

Consult your local or regional authorities.

#### Section 14: TRANSPORT INFORMATION

TDG (TRANSPORATION OF DANGEROUS GOODS) CLASSIFICATION: Not Regulated

#### Section 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION: D2A, D2B

Domestic Substance List (DSL): yes

#### Section 16: OTHER INFORMATION

References: Canadian Guide of the Law and Regulations of the Transportation of Dangerous Goods. Controlled products regulations. Manufacturer's Material Safety Data Sheet. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Other special considerations: No additional remark

Regulatory Affairs Department: 519-754-1678

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