

**Section 1: IDENTIFICATION**

GSH Product Identifier: Swiftseal Prime PR300 Part A  
Other means of Identification: Polyurethane

Relevant Identified uses of the substance or mixture and uses advised against

Product Use: Primer  
Area of Application: Industrial applications  
Supplier/Manufacturer: Elastochem Specialty Chemicals Inc.  
37 Easton Road  
Brantford, Ontario N3P 1J4  
Phone (519) 754-1678 Fax (519) 754-4487  
Emergency Telephone #: Chemtrec Emergency Number: 800-424-9300

**Section 2: Hazard Identification**GHS Classification:

Skin Irritation - Category 2  
Skin Sensitization - Category 1  
Eye Irritation - Category 2  
Acute Toxicity Inhalation - Category 4  
Respiratory Sensitization - Category 1  
Specific Target Organ Toxicity Single Exposure - Category 3  
Specific Target Organ Toxicity Repeated Exposure - Category 2

GHS label elements

## Hazard Pictograms:



Signal word: Danger

Hazard statements: Causes skin irritation. Causes serious eye irritation.  
May cause an allergic skin reaction. Harmful if inhaled.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause respiratory irritation.  
May cause damage to respiratory system through prolonged or repeated exposure by inhalation.

Precautionary statements: Avoid breathing mist, gas, vapors or spray. Do not eat, drink or smoke when using this product. Wear protective gloves, eye protection and face protection. Wash skin and face thoroughly after handling. Use only outdoors or in a well-ventilated area.

**Section 3: Composition/information on ingredients**Hazardous Components

Chemical Name	Cas Number	Concentration
Methylene Diphenyl Diisocyanate (MDI)	101-68-8	40%-70%
Prepolymer of MDI and polyether polyol	Not available	10%-30%
Propylene Carbonate	108-32-7	7%-12%

**Section 4: FIRST AID MEASURES**Description of necessary first aid measures

**Skin:** Clean exposed area with soap and lukewarm water for 15 minutes. Remove contaminated clothing. Seek medical attention if irritation or rash occurs. Wash contaminated clothes before re-use.

**Eyes:** Immediately flush thoroughly with water for at least 15 minutes lifting eye lids occasionally. Get medical attention if irritation persists.

**Inhalation:** If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Ingestion:** Do Not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Wash mouth out with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention immediately.

Most important symptoms/effects, acute and delayedPotential acute & delayed health effects

Inhalation: Respiratory tract irritation, difficulty breathing or asthmatic reaction. High aerosol concentrations could cause inflammation of the lung tissue (chemical pneumonitis, chemical bronchitis with severe asthma like wheezing, severe coughing spasms and accumulation of fluid in the lungs, which could prove fatal.

Eye Contact: Irritation of the eye tissue.

Skin Contact: Tingling, irritation or redness of the skin. Repeated skin contact with this material may cause skin sensitization in humans. Further skin contact may result in inflammation, rash, itching and staining.

Ingestion: Swallowing is expected to cause drowsiness and dizziness, weakness, nausea and vomiting. Causes irritation of the tissues of the mouth, throat and digestive tract. Onset of symptoms may be delayed.

**Section 5: FIRE FIGHTING MEASURES**

**Means of Extinction:** Suitable extinguishing media: Dry chemical, Carbon dioxide (CO<sub>2</sub>), alcohol resistant foam, water spray for large fires.

Exercise caution when using water since the reaction between water and hot isocyanate can be vigorous and will generate carbon dioxide gas.

**Specific hazards arising from the chemical:** During a fire, products of combustion may include toxic hydrogen cyanide, isocyanate vapour, oxides of carbon and nitrogen, dense smoke and irritating or toxic fumes. Reacts vigorously with water at high temperatures. Closed containers may rupture violently when heated or contaminated with water.

**Special protective equipment and precautions for fire-fighters:**

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk without suitable training. Fire fighters should wear appropriate protective equipment and self contained breathing apparatus. Avoid contact with product. Decontaminate equipment and protective clothing prior to reuse. Prevent fire extinguishing water from contaminating surface water or the ground water system.

**Section 6: ACCIDENTAL RELEASE MEASURES**

**Spill Procedure:**

Clean up personnel must wear protective equipment to prevent contact with the product. Evacuate the area of all unnecessary personnel. Stop spill at source. Ventilate and remove ignition sources. Control the source of the leak. Contain the released material by damming, diking, retaining, or diverting into an appropriate containment area. Absorb or pump off as much of the spilled material as possible. When using absorbent, completely cover the spill area with suitable absorbent material (e.g., vermiculite, kitty litter, Oil-Dri®, etc..). Allow for the absorbent material to absorb the spilled liquid. Shovel the absorbent material into an approved metal container (i.e., 55-gallon salvage drum). Do not fill the container more than 2/3 full to allow for expansion, and do not tighten the lid on the container. Repeat application of absorbent material until all liquid has been removed from the surface.

Decontaminate the spill surface area using a neutralization solution (see list of solutions on the SDS); scrubbing the surface with a broom or brush helps the decontamination solution to penetrate into porous surfaces. Wait at least 15 minutes after first application of the neutralization solution. Cover the area with absorbent material and shovel this into an approved metal container.

Decontaminate the spill surface area using a neutralization solution (see list of solutions on the SDS); scrubbing the surface with a broom or brush helps the decontamination solution to penetrate into porous surfaces. Wait at least 15 minutes after first application of the neutralization solution. Cover the area with absorbent material and shovel this into an approved metal container.

Apply lid loosely to metal waste container (do not tighten the lid because carbon dioxide gas and heat can be generated from the neutralization process). With the lid still loosely in place, move the container to an isolated, well-ventilated area to allow release of

carbon dioxide. After 72 hours, seal the container, and properly dispose of the waste material and any contaminated equipment (i.e., broom or brush) in accordance with existing federal, provincial and local regulations.

Neutralization solutions include:

-Easy Off Grill and Oven Cleaner or Easy Off Fume Free oven cleaner  
-A mixture of 90% Fantastic Heavy Duty All Purpose Cleaner and 10% household ammonia.

It may take 2 or more applications of the neutralization solution to decontaminate the surface.

**Personal Precautions, protective equipment and emergency procedures:**

Wear suitable protection clothing, gloves, eye/face protection and respirator when handling this product. Ventilate the area.

**Environmental precautions:** Should not be released into the environment. Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

**Methods and material for containment and cleaning up:**

Suitable material for taking up: inert absorbing material, e.g., vermiculite, kitty litter, Oil-Dri®, etc. Pick up and transfer to properly labelled containers. Ventilate the area.

**Section 7: HANDLING AND STORAGE**

**Precautions for safe handling:**

**Protective Measures:**

Put on appropriate personal protective equipment. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes, inhalation of vapours and mists. Use only with adequate ventilation to keep airborne isocyanate levels below the exposure limits. Wear appropriate respirator when handling product including if material is heated, sprayed, used in a confined space, or if the exposure limit is exceeded. Warning properties (irritation of the eyes, nose and throat or odor) are not adequate to prevent overexposure from inhalation. This material can produce asthmatic sensitization upon either single inhalation exposure to a relatively high concentration or upon repeated inhalation exposures to lower concentrations. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed to vapor or spray mist. Do not breathe smoke and gases created by overheating or burning this material. Decomposition products can be highly toxic and irritating. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected. Keep in the original container and keep tightly closed when not in use. Empty

containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene:**

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands before, eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering eating areas.

**Conditions for safe storage, including any incompatibilities:**

Store product in accordance with local regulation. Store product at room temperature away from heat and moisture. Store product in original container protected from direct sunlight in a dry, cool, and well ventilated area with local exhaust. Keep away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use.

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

**Control Parameters**

Component	Cas Number	ACGIH	OSHA PEL	TWA
Methylene diphenyl diisocyanate (MDI)	101-68-8	0.051mg/m <sup>3</sup> (0.005ppm)	0.2mg/m <sup>3</sup> (0.02ppm)	0.005ppm

**Appropriate Engineering Controls**

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapour, etc) below recommended exposure limits. Handle in accordance with good industrial hygiene and safety practice.

**Individual Protection Measures**

**Eye Protection:** When directly handling liquid product, eye protection is required, such as chemical safety goggles or chemical safety goggles in combination with a full face shield when there is a greater risk of splash.

**Protection for skin:** Avoid all skin contact. Depending on the conditions of use, cover as much of the exposed skin area as possible with appropriate clothing to prevent skin contact. Animal tests and other research indicate that skin contact with MDI can play a role in causing isocyanate sensitization and respiratory reaction. This data reinforces the need to prevent direct skin contact with isocyanate.

**Protection for hands:** Gloves should be worn. Nitrile rubber showed excellent resistance, butyl rubber, neoprene and PVB are also effective.

**Respiratory Protection**

Airborne MDI concentrations greater than the ACGIH TLV-TWA (TLV) or OSHA PEL-C (PEL) can occur in inadequately ventilated environments when MDI is sprayed, aerosolized, or heated. In such cases,

respiratory protection must be worn. The type of respiratory protection selected must comply with the requirements set forth in OSHA's Respiratory Protection Standard (29 CFR 1910.134).

**Hygiene Measures:** Wash hands, forearms and face thoroughly after handling chemical products.

#### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Colour: Dark Amber Liquid	Vapour Pressure: <10-4 mmHg @ 40°C
Physical State: Liquid	Vapour Density: <8.5 approximate (air = 1)
Odour: Slight musty odour	Relative Density: 1.14 @ 25°C (water = 1)
Odour Threshold: 4mg/m <sup>3</sup> for MDI	Solubility in water: Insoluble - Reacts slowly with water to liberate CO <sub>2</sub> gas
pH: Not available	Partition coefficient: Not available
Melting Point/Freezing Point: Not available	Auto Ignition Temp: Not available
Initial Boiling Point: >300°C (572°F)	Decomposition Temp: Not available
Flash Point: 170°C (338°F)	Dynamic Viscosity: Not available
Evaporation Rate: Not available	Specific Gravity: 1.22g/ml
Lower Flammable Limit: Not available	Explosive Properties: Not available
Upper Flammable Limit: Not available	

#### Section 10: STABILITY AND REACTIVITY

**Chemical Stability:** This is a stable material at room temperature.

**Possibility of Hazardous Reactions:** Contact with moisture, other materials that react with isocyanates, or temperatures above 350°F(177°), may cause polymerization.

**Conditions to avoid:** Avoid high temperatures, heat and freezing.

**Incompatibility (Materials to avoid):** avoid water, amines, strong bases, acids, alcohols, copper alloys.

**Hazardous decomposition Products:** By thermal decomposition and combustion, product may generate nitrogen oxide, hydrogen cyanide and isocyanate vapours.

#### Section 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

**Toxicological Information of the mixture:**

Acute Oral Toxicity:

Ingredient	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methylene diphenyl diisocyanate MDI	2200mg/kg (mouse)	>1000 mg/kg (rabbit)	490mg/m <sup>3</sup> /4 hours (rat)

Acute Health Hazards:

Inhalation: Data not available for the mixture. MDI has a very low vapour pressure and it is difficult to achieve vapour concentrations necessary for inhalation toxicity testing. Mice exposed to MDI aerosols varying from 7 to 59 mg/m<sup>3</sup> for 4 hours demonstrated a decline in respiratory rate which was determined to be due mainly to MDI's action as a pulmonary irritant. The RD50 (concentration to reduce the respiratory rate by 50%) was 32 mg/m<sup>3</sup>.

Some people may become sensitized to MDI, causing allergy or asthma symptoms or breathing difficulties if inhaled.

Skin: Data not available for the mixture. MDI can cause mild irritation. Isocyanates, in general, can cause skin discolouration and hardening of the skin after repeated exposures. Skin Sensitization, resulting in dermatitis, may occur in some individuals. Cured material may be difficult to remove from the skin.

Eye: Data not available for the mixture. MDI, liquid, vapours, and aerosols, can cause eye irritation in humans.

Ingestion: Animal studies indicate that ingested MDI has low toxicity. Swallowing may result in irritation and corrosion of the mouth, throat and digestive tract.

Aspiration Hazard: Data not available

Sensitization: Respiratory and/or skin

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Isocyanates are known to cause skin and respiratory sensitization in humans. Animal test have indicated that respiratory sensitization can result from skin contact with diisocyanates. Respiratory sensitization can develop in people working with MDI. Sensitized individuals react to very low levels of MDI that have no effect on unsensitized people.

Symptoms may initially appear to be a cold or mild hay fever; severe asthmatic symptoms can develop and include wheezing, chest tightness, shortness of breath, difficulty breathing and/or coughing. Fever, chills, general feelings of discomfort, headache and fatigue can also occur. Symptoms may occur immediately upon exposure or may be delayed. Sensitized people who continue to work with MDI may develop symptoms sooner after each exposure. The number and severity of symptoms may increase. MDI and other isocyanates may also cause hypersensitivity

**Mutagenicity:** Not suspected to be mutagenic. Overall, test assessing the mutagenic potential of MDI in vitro and in vivo provide no convincing evidence of mutagenic and genotoxic activity.

**Carcinogenicity:**

Polymeric MDI has been classified as IARC Group 3 ("Not classifiable as to its carcinogenicity to humans") (1999) indicating there is inadequate evidence available to describe the carcinogenic potential. Epidemiological studies found no association between isocyanates and cancer. In chronic exposure studies in rodents, pMDI produced tumors only at the highest exposure level of 6 mg/m<sup>3</sup>. This exposure level is significantly above the TLV for MDI (0.051 mg/m<sup>3</sup>). Based on the weight of the evidence, a determination of not classified for carcinogenicity is justified.

**Developmental Toxicity/Teratogenicity:** Data not available

**Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity effects:**

Data for MDI: LC50, fish (96 hour) >1000 mg/L  
EC50 Daphnia magna (48 hour) >1000 mg/L

**Biodegradation:** Not readily biodegradable

**Bioaccumulative Potential:** Data not available

**Mobility in Soil:** Data not available

**Other adverse effects:** Data not available

**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 (TRANSPORTATION OF DANGEROUS GOODS) CLASSIFICATION:** Not regulated

**Class:** Not regulated

**Environmental Hazards:** Not available

**Special Precautions:** Not available

**Section 15: REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.



**Section 16: OTHER INFORMATION**

**References:** Canadian Guide of the Law and Regulations of the Transportation of Dangerous Goods. Controlled products regulations. Manufacturer's Safety Data Sheet.

**Regulatory Affairs Department:** 519-754-1678

**DATE:** October 31, 2023

**REVISION 1**

**PREPARED BY:** Regulatory Affairs group,  
Elastochem Specialty Chemicals Inc.

**Section 1: IDENTIFICATION**

GSH Product Identifier: Swiftseal Prime PR300 Part B

Other means of Identification: Not available

Relevant Identified uses of the substance or mixture and uses advised against

Product Use: Primer

Area of Application: Industrial applications

Supplier/Manufacturer: Elastochem Specialty Chemicals Inc.

37 Easton Road

Brantford, Ontario N3P 1J4

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

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

**Section 2: Hazard Identification**GHS CLASSIFICATION:

None

GHS label elements

Signal word: None

Hazard Statements: None Listed

Risk Phrases: None Listed

**Section 3: Composition/information on ingredients**

Substance/mixture: Not applicable

Other means of identification: Not applicable

None Present - This is not a controlled product.

**Section 4: FIRST AID MEASURES**Description of necessary first aid measures**Skin:** Clean exposed area with soap and warm water. Remove contaminated clothing.**Eyes:** Immediately flush thoroughly with water for at least 15 minutes lifting eye lids occasionally. Seek medical attention if necessary.**Inhalation:** Remove victim to fresh air; get medical attention if symptoms occur.**Ingestion:** Wash mouth out with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention.Most important symptoms/effects, acute and delayed

Potential acute health effects

None

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician: None

Specific Treatments: None

Protection of first aiders: None

#### Section 5: FIRE FIGHTING MEASURES

**Means of Extinction:** Use extinguishing agent suitable for the surrounding fire. Suitable extinguishing media: use dry chemicals, CO<sub>2</sub>, water spray or chemical foam.

**Specific hazards arising from the chemical:** Keep product and empty containers away from heat and sources of ignition.

**Hazardous combustion products:** carbon dioxide, carbon monoxide.

**Special protective equipment and precautions for fire-fighters:**

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk without suitable training. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

#### Section 6: ACCIDENTAL RELEASE MEASURES

**Spill Procedure:**

Clean up personnel must wear protective equipment to prevent contact with the product. Evacuate the area of all unnecessary personnel. Stop spill at source. Use inert absorbent material such as sand, clay, earth or floor absorbent to clean up spill. Shovel into drums.

**Personal Precautions, protective equipment and emergency procedures:**

Wear personal protection equipment.

Remove persons to safety.

**Methods and material for containment and cleaning up:**

Suitable material for taking up: Absorb or cover with dry earth, sand or other non combustible material and transfer to containers. Use clean non sparking tools to collect absorbed material.

#### Section 7: HANDLING AND STORAGE

**Precautions for safe handling:**

**Protective Measures:**

Put on appropriate personal protective equipment. Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes, and mucous membranes. Use only with adequate ventilation. Keep in the original container and keep tightly closed when not in use. Do not reuse container.

**Advice on general occupational hygiene:**

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands before, eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering eating areas.

**Conditions for safe storage, including any incompatibilities:**

Store product in accordance with local regulation. Store product at room temperature away from heat and moisture. Store product in original container protected from direct sunlight in a dry, cool, and well ventilated area with local exhaust. Keep away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use.

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

**Appropriate Engineering Controls**

Handle in accordance with good industrial hygiene and safety practice.

**Individual Protection Measures**

**Eye Protection:** Wear safety glasses or goggles if there is potential for eye contact with product.

**Protection for skin:** Wear gloves if there is potential for skin contact with product.

**Respiratory Protection:** Not required for the foreseeable use of product.

**Hygiene Measures:** Wash hands, forearms and face thoroughly after handling chemical products.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance & Colour: Yellow viscous liquid	Vapour Pressure: negligible
Physical State: Liquid	Vapour Density: Not available
Odour: Strong	Relative Density: Not available
Odour Threshold: Not available	Solubility in water: Not available
pH: Not available	Partition coefficient: Not available
Melting Point/Freezing Point: -10°C/14°F	Auto Ignition Temp: 448°C
Initial Boiling Point: 229°C/444.2°F	Decomposition Temp: Not available
Flash Point: Not available	Viscosity: 6-8
Evaporation Rate: Not available	Specific Gravity: 0.957
Lower Flammable Limit: Not available	Explosive Properties: Not available
Upper Flammable Limit: Not available	

**Section 10: STABILITY AND REACTIVITY**

**Chemical Stability:** This is a stable material at room temperature.

**Possibility of Hazardous Reactions:** None

**Conditions to avoid:** Avoid all sources of ignition.

**Incompatibility (Materials to avoid):** Strong Oxidizing agents.

**Hazardous decomposition Products:** Oxides of carbon

**Section 11: TOXICOLOGICAL INFORMATION**Acute Toxicity

No acute toxicity is available for this product.

Irritation: No information available

Sensitization: No information available

Carcinogenicity: Product not suspected as a carcinogen

Mutagenic Effects: No information available

Reproductive Effects: No information available

Developmental Effects: No information available

**Section 12: ECOLOGICAL INFORMATION**Ecotoxicity

Persistence and Degradability: No information available

Bioaccumulation/Accumulation: No information available

Mobility: No information available

**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

**Class:** Not regulated

**Environmental Hazards:** Marine pollutant-No

Environmental Pollutant-Not available

**Special Precautions:** Not available

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**Section 15: REGULATORY INFORMATION**

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Safety, health and environmental regulations/legislation specific for the substance or mixture:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

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**Section 16: OTHER INFORMATION**

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**References:** Canadian Guide of the Law and Regulations of the Transportation of Dangerous Goods. Controlled products regulations. Manufacturer's Safety Data Sheet.

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