

## Canusa-CPS Scar-Guard & Scar-Guard XL

### SECTION 1. IDENTIFICATION

**Product Identifier** Canusa-CPS Scar-Guard & Scar-Guard XL  
**Recommended Use** Intended to repair pipes or for corrosion control.

**Supplier Identifier** CANUSA-CPS, A DIVISION OF SHAWCOR LTD., 25 BETHRIDGE ROAD, TORONTO, ON, M9W 1M7, (416) 743-7111

**Emergency Phone No.** Canusa, (613) 996-6666 (CANUTEC)

**Date of Preparation** March 17, 2017

### SECTION 2. HAZARD IDENTIFICATION

#### Classification

Acute toxicity (Inhalation) - Category 1; Skin irritation - Category 2; Respiratory sensitization - Category 1B; Skin sensitization - Category 1B

#### Label Elements



#### Danger

May be fatal if aerosol is inhaled.

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

Causes skin irritation.

May cause an allergic skin reaction.

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

Wash hands and skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves.

IF ON SKIN: Wash with plenty of water.

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

If experiencing respiratory symptoms: Call a POISON CENTRE or doctor.

If skin irritation occurs: Get medical advice or attention.

Wash contaminated clothing before reuse.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Fibrous glass	65997-17-3	40-65	
Methylenediphenyl diisocyanate (mixed isomers)	26447-40-5	10-25	
Benzene, 1,1'-methylenebis[isocyanato-, homopolymer	39310-05-9	3-8	

#### Notes

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Also contains the following:

- Textured polyester filament yarn <4%
- Surface sizing <1%

## SECTION 4. FIRST-AID MEASURES

### First-aid Measures

#### Inhalation

Remove source of exposure or move to fresh air. Keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms (e.g. coughing, shortness of breath, wheezing), call a Poison Centre or doctor.

#### Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). If skin irritation or a rash occurs, get medical advice or attention. Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Severe exposures: get under safety shower after removing clothing, then get medical attention.

#### Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Get medical attention.

#### Ingestion

Do not induce vomiting. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Drink two glasses of water and consult a physician.

### Immediate Medical Attention and Special Treatment

#### Special Instructions

Notes to Physician: May cause respiratory sensitization or asthma like symptoms. Bronchodilators, expectorants, and antitussives may be of help. Excessive exposure may aggravate pre-existing asthma and other respiratory disorders. Treat bronchospasm with inhaled beta2 agonist and oral or parenteral corticosteroids. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed for 24-48 hours for signs of respiratory distress. Maintain adequate ventilation and oxygenation of the patient. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Symptoms of poisoning may even occur after several hours; therefore keep medical observation for at least 48 hours after the accident.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Water spray; dry chemical; carbon dioxide; foam. Alcohol resistant foams (ATC type) are preferred if available.

#### Unsuitable Extinguishing Media

General purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively. Do not use direct stream of water.

### Specific Hazards Arising from the Product

Corrosive, oxidizing nitrogen oxides; isocyanates; extremely hazardous hydrogen cyanide; very toxic carbon monoxide, carbon dioxide.

### Special Protective Equipment and Precautions for Fire-fighters

During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Product reacts with water. Reaction may produce heat and/or gases. Reaction may be violent. Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Dense smoke is produced when product burns. During a fire, MDI vapours and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Keep people away. At temperatures greater than 400°F, polymeric MDI can polymerize and decompose which can cause pressure build-up in closed containers. Explosive rupture is possible. Therefore, use cold water to cool fire-exposed containers and fire affected zone until the fire is out. Isolate fire area and deny unnecessary entry. Stay upwind. Keep out of low areas where gases (fumes) can accumulate. Consider use of unmanned hose holder or monitor nozzles. Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

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## 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. Evacuate downwind locations. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Increase ventilation to area or move leaking container to a well-ventilated and secure area.

### Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

### Methods and Materials for Containment and Cleaning Up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Do not get in eyes or on skin or clothing. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Remove contaminated clothing and protective equipment before entering eating areas.

### Conditions for Safe Storage

Keep in the original container; keep sealed when not in use. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep away from humidity and water. Empty containers retain product residue and can be hazardous.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Methylenediphenyl diisocyanate (mixed isomers)	0.005 ppm			0.02 ppm		
Fibrous glass	5 mg/m <sup>3</sup>		15 mg/m <sup>3</sup>			

### Appropriate Engineering Controls

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.

### Individual Protection Measures

#### Eye/Face Protection

Safety glasses with side shields or chemical safety goggles.

#### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.  
Butyl rubber, nitrile rubber, polyvinyl alcohol.

#### Respiratory Protection

When necessary, use respiratory protective device that is independent of circulating air.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Flash Point 188 °C (closed cup)

Relative Density (water = 1) 2.6 - 2.7

### Other Information

Other Physical Property 1 Fibreglass cloth, coated with viscous resin

## SECTION 10. STABILITY AND REACTIVITY

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## Chemical Stability

Normally stable.

## Possibility of Hazardous Reactions

Polymerizes violently in the presence of water, strong bases. Self-reactive in the presence of increased temperature, above 160 °C.

## Conditions to Avoid

Product can decompose at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems. Avoid moisture. Material reacts with water releasing carbon dioxide, which can cause pressure build up and rupture of closed containers. Elevated temperatures accelerate this reaction. Temperatures above 40.6 °C

## Incompatible Materials

For uncured material avoid contact with: acids, water, alcohols (e.g. ethanol), amines (e.g. triethylamine), ammonia, bases, moist air, strong oxidizing agents (e.g. perchloric acid), isocyanates. Avoid contact with metals such as aluminum, brass, copper, galvanized metals, tin, zinc. Avoid contact with moist organic absorbents.

## Hazardous Decomposition Products

Corrosive, oxidizing nitrogen oxides; isocyanates; extremely hazardous hydrogen cyanide; very toxic carbon monoxide, carbon dioxide.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Inhalation; skin contact; skin absorption; eye contact.

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Methylenediphenyl diisocyanate (mixed isomers)	490 mg/m <sup>3</sup> (rat) (4-hour exposure) (aerosol)	> 2000 mg/kg (rat)	> 9400 mg/kg (rabbit)
Fibrous glass			>20 mg/kg (mouse)

### Skin Corrosion/Irritation

(Methylenediphenyl diisocyanate (mixed isomers)) animal tests show moderate or severe irritation.

### Serious Eye Damage/Irritation

Irritating effect. May cause slight temporary corneal injury.

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

VERY TOXIC. May be fatal if aerosol is inhaled. May cause lung injury--effects may be delayed. Irritating to the respiratory tract.

RESPIRATORY SENSITIZER. May cause severe allergic respiratory reaction.

#### Skin Absorption

Irritant to skin and mucous membranes. May stick to skin causing irritation upon removal. May include the following symptoms: reddening, swelling, rash, scaling or blistering.

#### Ingestion

May cause burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

### Respiratory and/or Skin Sensitization

Prolonged skin contact can cause reddening, swelling, rash, scaling or blistering and in some cases, skin sensitization. Individuals who have skin sensitization can develop these symptoms from contact with liquid or vapour.

(Methylenediphenyl diisocyanate (mixed isomers)) animal tests have indicated that respiratory sensitization can result from skin contact with MDI. These data reinforce the need to prevent direct skin contact with MDI.

### Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Methylenediphenyl diisocyanate (mixed isomers)	Group 3	Not designated	Not Listed	Not Listed

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Fibrous glass	Group 2B	A4	Reasonably anticipated	Not Listed
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Lung tumors have been observed in laboratory animals exposed to aerosol droplets of MDI/ Polymeric MDI (6mg/m3) for their lifetime. Tumors occurred concurrently with respiratory irritation and lung injury. Current exposure guidelines are expected to protect against these effects reported for MDI.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

No information was located.

### Persistence and Degradability

No information was located.

### Bioaccumulative Potential

No information was located.

### Mobility in Soil

No information was located.

### Other Adverse Effects

There is no information available.

## 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. Not regulated under US DOT Regulations. Not regulated under IATA 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

### Safety, Health and Environmental Regulations

The regulatory information provided is not intended to be comprehensive. Other local, state, provincial, federal international or country specific regulations may apply to this material.

## SECTION 16. OTHER INFORMATION

<b>NFPA Rating</b>	<b>Health - 2</b>	<b>Flammability - 1</b>	<b>Instability - 0</b>
<b>SDS Prepared By</b>	SHAWCOR LTD.		
<b>Phone No.</b>	(416) 743-7111		
<b>Date of Preparation</b>	March 17, 2017		
<b>Disclaimer</b>	This information is accurate and reliable to the best of our knowledge. It is furnished without warranty, expressed or implied. Canusa-CPS, a division of Shawcor Ltd., assumes no legal responsibility for the use of, or reliance upon, this data for hazards which might be associated with the use of these materials, or for results obtained. It is the responsibility of the user to comply with all applicable laws and regulations. This MSDS was created in compliance with applicable hazardous material regulations, and is not intended to be used for any other purpose.		

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