

SAFETY DATA SHEET

Prepared according to USA OSHA Hazcom 2012 / Canada WHMIS 2015



Date Prepared : 06/09/2017

SDS No : BHBLCR_Part A Hippo Liner - Canada_ENG

Date Revised : 06/13/2018

Revision No : 1

BHBLCR Part A HIPPO LINER DO-IT-YOURSELF Bed Liner

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: BHBLCR Part A HIPPO LINER DO-IT-YOURSELF Bed Liner

Product Description: Part A Hardener for Hippo Liner Truck Bed Liner Coating, 850 ml / 28.7 fl oz US

General Use: Hardener for Truck Bed Liner Coating - Vehicle Refinishing Product

Product Stock/Code: BHBLCR / 100500 (Kit: 1.7 L / 1.8 qt US)

Chemical Family: Aromatic isocyanates, solvent-based

Molecular Formula: Mixture

Manufacturer / Supplier

Dominion Sure Seal Ltd.
6175 Danville Road, Mississauga
Ontario, Canada L5T 2H7
Fax: 905-670-5174
www.dominionsureseal.com

Customer Service: 905-670-5411

Emergency Telephone Numbers (24 hour)

CANUTEC : (613) 996-6666

CHEMTREC : (800) 424-9300

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

The classification and label elements stated below were prepared in accordance with the USA OSHA Hazard Communication Standard (29 CFR 1910.1200; Hazcom 2012) and the Canadian WHMIS regulations (Hazardous Products Regulations; WHMIS 2015). This information may be different from the actual product label information for labels that are regulated by other agencies.

Health hazards:

Acute Toxicity (Inhalation), Category 4

Skin Irritation, Category 2

Eye Irritation, Category 2

Target Organ Toxicity (Single exposure), Category 3 (Respiratory Tract Irritation and Narcotic Effects)

Target Organ Toxicity (Repeated exposure), Category 2

Respiratory Sensitization, Category 1

Skin Sensitization, Category 1

Reproductive Toxicity, Category 2

Carcinogenicity, Category 2

Physical hazards:

Flammable Liquids, Category 3

Label elements

Hazardous components for labelling:

4,4'-Diphenylmethane diisocyanate, Polymeric diphenylmethane diisocyanate, Diphenylmethane diisocyanate, mixed isomers, Toluene and p-Chlorobenzotrifluoride

The following supplementary information may be included on the product label if this product is sold to the general public:

Contains isocyanates. May produce an allergic reaction.

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter is used.



Flame



Health hazard



Exclamation mark

Signal Word: DANGER

Hazard statement(s)

H226: Flammable liquid and vapour.

H332: Harmful if inhaled.

H319: Causes serious eye irritation.

H315: Causes skin irritation.

H335: May cause respiratory irritation.

H373: May cause damage to respiratory system and central nervous system through prolonged or repeated exposure.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317: May cause an allergic skin reaction.

H361: Suspected of damaging the unborn child.

H351: Suspected of causing cancer by inhalation.

Precautionary statement(s)

Prevention:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof electrical, ventilating and lighting equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

P264: Wash hands thoroughly after handling.

P272: Contaminated work clothing should not be allowed out of the workplace.

P260: Do not breathe mist, vapours or spray.

P271: Use only outdoors or in a well-ventilated area.

P284: Wear respiratory protection.

P280: Wear protective gloves, protective clothing and eye protection.

Response:

P308+P313: IF exposed or concerned: Get medical advice/ attention.

P314: Get medical advice/attention if you feel unwell.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with plenty of soap and water.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

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P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P370+P378: In case of fire: Use dry chemical or foam to extinguish.

Storage:

P233: Keep container tightly closed.
P403+P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.

Disposal:

P501: Dispose of contents/container in accordance with applicable local, regional and/or national regulations.

Hazards Not Otherwise Classified: No data available.

Emergency Overview

Immediate concerns: Highly flammable liquid and vapour. Fumes and spray mist may be harmful. May irritate the eyes, skin and respiratory system. Vapours may cause drowsiness and dizziness. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause sensitization by skin contact. Possible risk of harm to the unborn child. Suspected of causing cancer.

Comments: < 5 % of the mixture consists of an ingredient or ingredients of unknown acute toxicity.
See sections 9 and 10 for more detailed information on physicochemical effects.
See section 11 for more detailed information on health effects.
See sections 12 for more detailed information on environmental effects.

The actual container label may not include the above label elements. The labeling shown above applies to products used solely for industrial / professional use.

Consumer products should be labeled in accordance with the Canadian Consumer Chemicals and Containers Regulations and US Consumer Product Safety Commission regulations. Consumer product labeling takes precedence over Canadian WHMIS 2015 and OSHA Hazcom 2012 Hazard Communication labeling.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS number
4,4'-Diphenylmethane diisocyanate	30 - 32	101-68-8
Polymeric diphenylmethane diisocyanate	27 - 29	9016-87-9
Diphenylmethane diisocyanate, mixed isomers	9.5 - 11.5	26447-40-5
Toluene	13 - 16	108-88-3
p-Chlorobenzotrifluoride	10 - 13	98-56-6

Comments: There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the product and hence require reporting in this section.

4. FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Get medical attention, if irritation persists.

Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists. Remove contaminated clothing and wash before reuse.

Ingestion: Do not induce vomiting. Rinse mouth with water. Give 1 to 2 glasses of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

Inhalation: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration

as needed. Obtain medical attention if breathing difficulty persists.

Signs and Symptoms of Overexposure

Eye Contact: Product liquid, aerosols or vapours are irritating. Can cause tearing, reddening and swelling. May cause temporary corneal injury.

Skin Contact: Contact causes skin irritation. Cured material is difficult to remove. Persons previously sensitized can experience allergic skin reaction with symptoms of reddening, itching, swelling, and rash. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Ingestion: Substance may be harmful if swallowed. May cause irritation. Symptoms of ingestion may include abdominal pain, nausea, vomiting and diarrhea.

Inhalation: High vapor or spray mist concentrations may be harmful if inhaled. Vapour/mists at concentrations above the exposure limits can irritate (burning sensation) the mucous membranes in the respiratory tract. This can cause a runny nose, sore throat, coughing, chest discomfort, difficult breathing and reduced pulmonary functioning. Persons with pre-existing, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV with similar symptoms as well as asthma attack. Exposure well above the TLV or PEL may lead to bronchitis, bronchial spasm and pulmonary edema. Chemical or hypersensitive pneumonitis, with flu-like symptoms has also been reported. These symptoms can be delayed up to several hours after exposure. Effects are usually reversible.

Notes to Physician: Respiratory: This compound is a known pulmonary sensitizer. Treatment is essentially symptomatic. An individual having a skin or pulmonary sensitization reaction to this material should be removed from exposure to any isocyanate. Skin: This compound is a known skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burns.

Additional Information: No data available.

5. FIRE FIGHTING MEASURES

Flammable Properties: Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Product can be ignited by static discharge.

Extinguishing Media: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

Hazardous Combustion Products: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Carbon dioxide, carbon monoxide. Nitrous gases, fumes/smoke, isocyanate, vapour.

Fire Fighting Procedures: Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosive rupture.

Fire Fighting Equipment: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

Sensitivity to Static Discharge: Product is sensitive to static discharge.

Sensitivity to Mechanical Impact: Product is not sensitive to mechanical impact.

6. ACCIDENTAL RELEASE MEASURES

Small Spill: Eliminate all ignition sources. Cover spill area with suitable absorbent material (e.g., sand, earth, sawdust, vermiculite, Oil-Dri, Kitty Litter, etc.). Saturate absorbent material with neutralizing solution. Add an additional layer of absorbent material. Use shovel to move absorbent material around to ensure that all spilled material comes in contact with the neutralizing solution. Shovel all absorbed material into an appropriate salvage drum. Allow to stand (covered loosely) for 48 to 72 hours, to allow any gases to escape. Decontaminate spill area with neutralizing solution. Area can then be washed with soap and water. Recommended portion is ten parts neutralizing solution to one part spilled material. Suggested neutralization solution: 90% water + 5% concentrated ammonia + 5% detergent (dish soap).

Environmental Precautions

Water Spill: Do not discharge into drains/surface waters/groundwater.

Land Spill: Avoid runoff into storm sewers and ditches which lead to waterways.

Special Protective Equipment: Clean up spills immediately, observing precautions in Protective Equipment section 8.

7. HANDLING AND STORAGE

General Procedures: Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids. Ensure thorough ventilation of stores and work areas. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed to vapour or spray mist. Warning properties (irritation of the eyes, nose and throat or odour) are not adequate to prevent chronic overexposure from inhalation. Handle in accordance with good industrial hygiene and safety practices.

Handling: Do not use in the presence of open flame or spark. Use only in a well ventilated area. Wear recommended personal protective equipment. Keep container closed when not in use. Avoid breathing vapours or mist. Avoid contact with eyes, skin, and clothing. After handling, always wash hands thoroughly with soap and water.

Storage: Keep away from heat, sparks and open flame. Protect from physical damage. Protect against moisture. Keep container tightly closed and in a well-ventilated place. Store in a cool dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

OSHA / WHMIS 2015 HAZARDOUS COMPONENTS				
Chemical Name	Occupational Exposure Limits			
	Type		ppm	mg/m ³
4,4'-Diphenylmethane diisocyanate	OSHA PEL	STEL	0.02	0.2
		ACGIH TLV	TWA	0.005
	NIOSH REL	TWA	0.005	0.05
		STEL	0.02 [1]	0.2 [1]
Polymeric diphenylmethane diisocyanate	-	-	-- [2]	-- [2]
	Germany (DFG)	TWA	-- [3]	0.05 [3]
		STEL	-- [4]	0.05 [4]
Diphenylmethane diisocyanate, mixed isomers	-	-	-- [2]	-- [2]
Toluene	OSHA PEL	TWA	200	--
		STEL	300	--
	ACGIH TLV	TWA	20	75
		NIOSH REL	TWA	100
STEL	150		560	
p-Chlorobenzotrifluoride	USA OEL	-	-- [2]	-- [2]

Footnotes:

1. Ceiling limit value (10 min).
2. This material does not have established exposure limits in the USA under OSHA, NIOSH, ACGIH.
3. Inhalable fraction; 15 minutes average value.
4. Inhalable fraction; 15 minutes average value. A momentary value of 0.1 mg/m³ should not be exceeded.

Engineering Controls: Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Avoid breathing mists; if general ventilation or local exhaust is inadequate, persons exposed to mists should wear approved breathing devices. Use explosion-proof ventilation equipment.

Personal Protective Equipment

Eyes and Face: Wear safety glasses with side shields (or goggles). Contact lenses should not be worn when working with this product. Eye wash fountains should be readily available to areas of use and handling.

Skin Contact: Chemical resistant gloves: butyl rubber, nitrile rubber, neoprene, PVC.

Respiratory: If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. Respirator type: NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Be sure to use MSHA/NIOSH approved respirator or equipment. Do not exceed the use limits of the respirator.

Respiratory equipment required during spraying:

The use of a positive pressure air supplied respirator is mandatory when airborne concentrations are not known or airborne solvent levels are 10 times the appropriate TLV or spraying is performed in a confined space or area with limited ventilation. Be sure to use MSHA/NIOSH approved respirator or equipment.

Protective Clothing: Wear protective clothing as necessary to prevent contact. Wear long sleeves and trousers to prevent dermal exposure.

Work Hygienic Practices: Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse. Eye wash fountains and safety showers must be easily assessable. Do not breathe vapour/spray. Exposure levels must be monitored by accepted monitoring techniques to ensure that the TLV is not exceeded. Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or sensitization should be excluded from working with isocyanates. Once a person is diagnosed as sensitized to an isocyanate, no further exposure can be permitted. Employee education and training are important.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical State** : Liquid
- Odor** : Aromatic
- Odor Threshold** : Not Available
- Appearance** : Viscous thixotropic paste
- Color** : Translucent, Amber
- pH** : No data available.
- % Volatiles** : 26 % w/w
- Flash Point and Method** : 4°C Setaflash Closed Cup
- Flammable Limits** : 1.1 to 7.1

Notes: Based on data for toluene.

Autoignition Temperature : 480°C (896°F)

Notes: Based on data for toluene.

- Vapor Pressure** : 3.8 kPa (21 mm Hg) [Toluene] at 20°C
- Vapor Density** : > 1 (air = 1)
- Boiling Point** : 110 °C (Toluene)
- Freezing Point** : Not Available

Melting Point : Not Available
Solubility in Water : Practically insoluble
Evaporation Rate (n-butyl acetate = 1) : > 1
Density : 1.19±0.02g/ml at 20°C
Viscosity : 10000 to 20000 cps at 25°C
VOC Content : 196 g/l (1.64 lb/gal), less exempt solvents
Oxidizing Properties : None

Comments:

VOC Compliance Statement – Part A

Part A VOC Content: Less Exempts: 196 g/l (1.64 lb/gal)
Total Material: 176 g/l (1.47 lb/gal)
Part A Density: 1.19 g/ml
Part A Total Volatiles: 26 % w/w
Part A Exempt Content: 11.3 % w/w; 10 % v/v (PCBTF)
Mixed Kit VOC Content: Less Exempts: 194 g/l (1.62 lb/gal)
Total Material: 166 g/l (1.38 lb/gal)
(1 part by volume Part A with
1 part by volume Part B)

VOC Regulation: VOC Concentration Limits for Automotive Refinishing
Products Regulations – Canada
Coating Category: Truck Bed Liner Coating
**The ready to apply kit VOC content meets the 310 g/l (2.59 lb/gal) limit for
Truck Bed Liner Coatings. Canada compliant.**

VOC Regulation: Sacramento Metropolitan AQMD Rule 459 – California
Eastern Kern APCD Rule 410.4A – California
Title 7.1124.11 – Delaware
COMAR 26.11.19.23 - Maryland
Coating Category: Truck Bed Liner Coating
**The ready to apply kit VOC content meets the 200 g/l (1.67 lb/gal) limit for
Truck Bed Liner Coatings. Do not thin with solvents.**

10. STABILITY AND REACTIVITY

Reactive Hazard : Yes

Hazardous Polymerization: Contact with moisture or other materials that react with isocyanates, or temperatures above 177 C, may cause polymerization.

Stability: Stable under normal conditions of use and storage.

Conditions to Avoid: Keep away from flames and any object that sparks. Avoid moisture.

Possibility of Hazardous Reactions: Reacts with water, with formation of carbon dioxide. Risk of bursting. Reacts with alcohols, acids, alkalis and amines. Risk of exothermic reaction. Risk of violent reaction. Risk of polymerization.

Hazardous Decomposition Products: By fire and high heat: Carbon monoxide, Carbon dioxide, Oxides of nitrogen, Hydrogen cyanide, Isocyanates, Isocyanic acid, other undetermined compounds.

Incompatible Materials: Water, amines, strong bases, alcohols. Copper alloys.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	Oral LD₅₀ mg/kg (rat)	Dermal LD₅₀ mg/kg (rabbit)	Inhalation LC₅₀ mg/l
4,4'-Diphenylmethane diisocyanate	> 10,000	> 10,000	0.369(rat;4h - mist)
Polymeric diphenylmethane diisocyanate	49,000	> 9400 > 6200	0.49(rat;4h - mist)
Diphenylmethane diisocyanate, mixed isomers	No data available.	No data available.	No data available.
Toluene	7000 6400 5500	12,270	49.0(rat;4h) 30.0(mouse;2h) 19.9(mouse;7h)
p-Chlorobenzotrifluoride	> 6700 13,000 11,500	> 2000	33.0(rat;4h) 22.0(rat;4h) 20.0(mouse)

Acute Toxicity - Dermal LD₅₀: Based on available ingredient data, the classification criteria for Acute Dermal Toxicity are not met for this mixture. The calculated ATE is >2000 mg/kg.

Acute Toxicity - Oral LD₅₀: Based on available ingredient data, the classification criteria for Acute Oral Toxicity are not met for this mixture. The calculated ATE is >2000 mg/kg.

Acute Toxicity - Inhalation LC₅₀: Based on available ingredient data, the mixture is classified as: Acute Inhalation Toxicity, category 4. The calculated ATE is > 1 and ≤ 5 mg/l/4h (mists). The calculated ATE is >20 mg/l/4h (vapours). Contains: Isocyanates. High vapor or spray mist concentrations may be harmful if inhaled.

Notes: < 5% of the mixture consists of an ingredient or ingredients of unknown acute toxicity. No additional toxicology information is available for this product itself. (See Component Toxicity Information).

Primary Routes of Entry:

Eye contact. Inhalation. Skin contact. Ingestion.

Skin Irritation / Corrosion: Contains: 4,4'-Diphenylmethane diisocyanate, Polymeric isocyanates, Toluene and p-Chlorobenzotrifluoride. Causes skin irritation. The mixture is classified as: Skin Irritant, category 2, based on summation of ingredient data (>10% ingredients classified as skin irritant, category 2). Persons previously sensitized can experience allergic skin reaction with symptoms of reddening, itching, swelling, and rash. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Eye Irritation / Serious Eye Damage: Contains: 4,4'-Diphenylmethane diisocyanate, Polymeric isocyanates and p-Chlorobenzotrifluoride. Contact causes serious eye irritation. The mixture is classified as: Eye Irritant, category 2, based on summation of ingredient data (>10% ingredients classified as eye irritant, category 2). Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

Respiratory / Skin Sensitizer: Contains: 4,4'-Diphenylmethane diisocyanate. The mixture is classified as: Skin Sensitizer, category 1 based on ingredient data (≥ 0.1% ingredients classified as a skin sensitizer, category 1 or sub-category 1A or ≥ 1.0% ingredients classified as a skin sensitizer, sub-category 1B). The mixture is classified as: Respiratory Sensitizer, category 1 based on ingredient data (≥ 0.1% ingredients classified as a respiratory sensitizer, category 1 or sub-category 1A or ≥ 1.0% ingredients classified as a respiratory sensitizer, sub-category 1B).

May cause sensitization by inhalation and skin contact. As a result of previous repeated overexposure or a single large dose, certain individuals develop sensitization which will cause them to react to a later exposure to product at levels well below the TLV. Symptoms including chest tightness, wheezing, cough, shortness of breath or asthma attack, could be immediate or delayed. There are reports that once sensitized, an individual can

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experience these symptoms upon exposure to dust, cold air or other irritants. This increased lung sensitivity can persist for weeks and in severe cases for several years. Sensitization can be permanent. Prolonged contact with this product can cause reddening, swelling, rash scaling or blistering. In those who have developed skin sensitization, these symptoms can develop as a result of contact with very small amount of the liquid material.

Germ Cell Mutagenicity: Based on available data, the classification criteria for Germ Cell Mutagenicity are not met for this mixture (< 0.1% ingredients classified as Germ Cell Mutagen, category 1A or 1B and < 1.0% ingredients classified as Germ Cell Mutagen, category 2).

Carcinogenicity

Chemical Name	NTP status	IARC status	OSHA status	Other
4,4'-Diphenylmethane diisocyanate	--	3	--	--
Polymeric diphenylmethane diisocyanate	--	3	--	--
Diphenylmethane diisocyanate, mixed isomers	--	3	--	--
Toluene	--	3	--	A4 (ACGIH)
p-Chlorobenzotrifluoride	--	--	--	--

Notes: Contains: 4,4'-Diphenylmethane diisocyanate. The European Commission (2012) has classified MDIs (CAS No. 101-68-8, 26447-40-5 and 9016-87-9) as Category 2, suspected human carcinogens. The mixture is classified as: Carcinogenicity, category 2 based on ingredient data using the applicable cut-off/concentration limits ($\geq 0.1\%$ ingredients classified as a Carcinogen, category 2).

Reproductive Toxicity: The mixture is classified as: Reproductive Toxicity, category 2 based on ingredient data using the applicable cut-off/concentration limits ($\geq 0.1\%$ ingredients classified as Reproductive Toxicity, category 2). May cause adverse reproductive effects. Possible risk of harm to the unborn child (Toluene).

Specific Target Organ Toxicity - Single Exposure: The mixture is classified as: Specific Target Organ Toxicity - Single Exposure, category 3, based on summation of ingredient data using the applicable cut-off/concentration limits ($\geq 20\%$ summation of all ingredients classified as Specific Target Organ Toxicity - Single Exposure, category 3).

Contains: Toluene. High vapor concentrations may cause drowsiness. May cause headaches and dizziness.
Contains: 4,4'-Diphenylmethane diisocyanate and p-Chlorobenzotrifluoride. Prolonged or excessive inhalation may cause respiratory tract irritation. Vapour/mists at concentrations above the exposure limits can irritate (burning sensation) the mucous membranes in the respiratory tract. This can cause a runny nose, sore throat, coughing, chest discomfort, difficult breathing and reduced pulmonary functioning. Persons with pre-existing, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV with similar symptoms as well as asthma attack.

Specific Target Organ Toxicity - Repeated Exposure: Contains: 4,4'-Diphenylmethane diisocyanate and Toluene. The mixture is classified as: Specific Target Organ Toxicity - Repeated Exposure, category 2, based on ingredient data using the applicable cut-off/concentration limits ($\geq 1.0\%$ ingredients classified as Specific Target Organ Toxicity - Repeated Exposure, category 2). Prolonged inhalation may be harmful. Prolonged or repeated exposure may cause lung damage, including a decrease in lung function. Possible risk of irreversible effects. Chronic exposure to organic solvents such as Toluene have been associated with various neurotoxic effects including permanent brain and nervous system damage. Symptoms include: loss of memory, loss of intellectual ability, and loss of coordination. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Aspiration Hazard: Based on available data, the classification criteria for Aspiration Hazard are not met for this mixture (< 10% ingredients classified as an Aspiration Hazard, category 1 and/or mixture viscosity > 20.5 mm²/s at 40 °C).

12. ECOLOGICAL INFORMATION

Environmental Data: No data available.

Ecotoxicological Information: No data available.

Bioaccumulation/Accumulation: No data available.

Distribution: No data available.

Aquatic Toxicity (Acute): No data available.

Chemical Fate Information: No data available.

13. DISPOSAL CONSIDERATIONS

Disposal Method: Comply with applicable local, state or international regulations concerning solid or hazardous waste disposal and/or container disposal. Do not discharge substance/product into sewer system.

Product Disposal: Empty containers retain product residue; observe all precautions for product. Decontaminate containers prior to disposal.

14. TRANSPORT INFORMATION

DOT (Department of Transportation)

Proper Shipping Name : PAINT

Primary Hazard Class/Division: 3

UN/NA Number : 1263

Packing Group : II

Other Shipping Information:

With an inner packaging < 5.0 L, this product may be shipped as a Limited Quantity.

Air (ICAO/IATA)

Shipping Name : PAINT

UN/NA Number : 1263

Primary Hazard Class/Division: 3

Packing Group : II

Subsidiary Risk : None

Label : Flammable Liquid

Vessel (IMO/IMDG)

Shipping Name : PAINT

UN/NA Number : 1263

Primary Hazard Class/Division: 3

Packing Group : II

Marine Pollutant : None

Note: With an inner packaging < 5.0 L, this product may be shipped as a Limited Quantity.

Canadian Transportation of Dangerous Goods Regulations

Shipping Name : PAINT

UN/NA Number : 1263

Primary Hazard Class/Division: 3

Packing Group : II

TDG Note:

For products with an inner packaging < 5.0 L, this component may be shipped as a Limited Quantity as per TDG Section 1.17.

15. REGULATORY INFORMATION

UNITED STATES

SARA Section 311/312 Hazard Categories

311/312 Health Hazards: Acute Toxicity (Inhalation), Carcinogenicity, Eye Irritation, Narcotic Effects, Reproductive Toxicity, Respiratory Sensitization, Respiratory Tract Irritation, Skin Irritation, Skin Sensitization, Target Organ Toxicity (Repeated exposure)

311/312 Physical Hazards: Flammable Liquids

Fire Hazard : Yes
Sudden Release of Pressure : No
Reactive Hazard : No
Product Acute Toxicity : Yes
Product Chronic Toxicity : Yes

EPCRA Section 313 Toxic Chemicals

Chemical Name	Wt.%	CAS number
4,4'-Diphenylmethane diisocyanate	30 - 32	101-68-8
Polymeric diphenylmethane diisocyanate	27 - 29	9016-87-9
Toluene	13 - 16	108-88-3

EPCRA Section 302 Extremely Hazardous Substances

EPCRA Status:

This product contains no listed extremely hazardous substances that are subject to the reporting requirements of SARA Title III, Section 302.

CERCLA Hazardous Substances and Reportable Quantities (RQ)

Chemical Name	Wt.%	RQ
4,4'-Diphenylmethane diisocyanate	30 - 32	5,000
Toluene	13 - 16	1,000

TSCA (The Toxic Substances Control Act)

TSCA Status:

All components are included or are otherwise exempt from inclusion on this inventory.

CAA 112(b) - Hazardous Air Pollutants

Chemical Name	Wt.%	CAS number
4,4'-Diphenylmethane diisocyanate	30 - 32	101-68-8
Toluene	13 - 16	108-88-3

CAA 112(r) - List of Substances for Accidental Release Prevention:

This product contains no chemicals subject to CAA 112(r).

California Proposition 65

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Chemical Name	Wt. %	Listed
Toluene	13 - 16	<ul style="list-style-type: none"> • Developmental Toxicity • Female Reproductive

OSHA Hazard Communication Standard (29 CFR 1910.1200):

OSHA Status: Hazardous Product (See Section 2 for details).

This product has been classified in accordance with the hazard criteria of the USA OSHA Hazard Communication Standard (29CFR 1910.1200) and the Safety Data Sheet contains all the information required by the OSHA Hazard Communication Standard (HazCom 2012).

CANADA**WHMIS Hazard Symbol and Classification**

See Section 2 for details.

WHMIS Regulatory Status:

This product has been classified in accordance with the hazard criteria of the Canadian Hazardous Products Regulations and the Safety Data Sheet contains all the information required by the Hazardous Products Regulations (WHMIS 2015).

WHMIS Classification:

WHMIS 2015 (Canada) Status: Hazardous Product (See Section 2 for details).

CEPA - National Pollutant Release Inventory (NPRI):

Name	CAS No.	NPRI Part No.
Toluene	108-88-3	1A, 5 (VOC)
4,4'-Diphenylmethane diisocyanate	101-68-8	1A, 5 (VOC)

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL):

All components are included or are otherwise exempt from inclusion on this inventory.

Comments VOC Content -- See section 9.

16. OTHER INFORMATION

Reason for Issue: NEW

Approved By: Jim Gordon **Title:** R&D Chemist

Prepared By : Regulatory Compliance

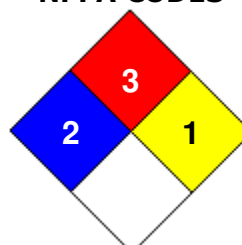
Date Revised: 06/13/2018

Information Contact: 905-670-5411

Revision Summary: This MSDS replaces the 06/09/2017 MSDS.

HMIS RATING

HEALTH	*	2
FLAMMABILITY		3
PHYSICAL HAZARD		1
PERSONAL PROTECTION		G

NFPA CODES

NFPA 30 / 30B Storage Classification: Flammable Liquid IB

Manufacturer Supplemental Notes: The health ratings apply to spray application (spray mist).

Data Sources: Not Available

Additional SDS Information:

N/AV Not Available

N/AP Not Applicable

ND Not yet determined

ACGIH American Conference of Governmental Industrial Hygienists

CAA The Clean Air Act

CCCR The Consumer Chemicals and Containers Regulations

CEPA The Canadian Environmental Protection Act

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

EPCRA The Emergency Planning and Community Right-To-Know Act

IARC International Agency for Research on Cancer

MSHA Mine Safety and Health Administration

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program

OSHA The Occupational Safety and Health Administration

SARA The Superfund Amendments and Reauthorization Act

WHMIS Workplace Hazardous Materials Information System

General Statements: None

Comments: None

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