

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND PREPARATION INFORMATION

Manufacturer:	Dominion Sure Seal Group of Companies 6175 Danville Road, Mississauga, Ontario Canada, L5T 2H7 (905)670-5411 U.S.A. 1-800-265-0790
Emergency telephone numbers:	Dominion Sure Seal (8 AM TO 4 PM EST) (905)670-5411 CANUTEC (24 HR) (613) 996 – 6666
Product Name:	Universal Urethane Medium Adhesive, Part A
Product Code:	XSM2002, Part A
Synonyms:	Polymeric Diphenylmethane Diisocyanate
Chemical Family:	Aromatic Isocyanates
Molecular Formula:	Mixture
Product Use:	Adhesive
Prepared by:	Regulatory Department
Preparation Date:	June 1, 2014

2. HAZARDOUS INGREDIENTS

Hazardous Ingredients	CAS Number	Wt. %	TLV ppm	LD/50 Route, Species	LC/50 Route, Species
Diphenylmethane-4,4'-diisocyanate (MDI)	101-68-8	< 20	0.02 (OSHA) 0.005 (ACGIH)	>10,000 mg/Kg (ORL-RAT) >6200 mg/Kg (DRMAL-RBT)	172-187mg/m ³ (RAT; 4 h)
Polymeric MDI	9016-87-9	30-35	Not Available	Not Available	370-490mg/m ³ (RAT; 4 h)
Methylenediphenyl diisocyanate	26447-40-5	0-5	Not Available	Not Available	Not Available

3. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Black liquid
Odour	Aromatic, faint odour
Odour Threshold	Not Available
Boiling Point (Deg.C)	200 @ 5mm Hg (MDI)
Melting/Freezing Point (Deg. C)	Not Available
Vapour Density (Air = 1)	> 1
Specific Gravity	1.185 @ 25°C
Vapour Pressure (mm Hg)	0.00001 @ 25°C (MDI)
Evaporation Rate, n-Butyl Acetate = 1	< 1
Solubility in Water	Reacts with water
VOC (A+B kit, mixed)	< 10 g/l

4. FIRE AND EXPLOSION HAZARD

Flammability Class (WHMIS):	None.
Flammability Limits in Air (%):	No data available
Flash Point (PMCC deg.C)	213
Autoignition Temperature (Deg. C):	No data available
Hazardous Combustion Products:	Carbon monoxide, Nitrogen oxides, hydrogen cyanide, aromatic isocyanates.
Sensitivity to Mechanical Impact:	No data available. Not expected to be sensitive to mechanical impact.
Rate of Burning:	No data available.
Explosive Power:	No data available.
Sensitivity to Static Discharge:	No data available. Take precautionary measures against static discharges.
Extinguishing Media:	Water, dry extinguishing media, foam, carbon dioxide

5. REACTIVITY DATA

Chemical Stability:	Yes, under normal conditions.
Conditions to Avoid:	Avoid moisture.
Substances to Avoid:	Strong exothermic reaction with acids, alcohols, amines, water and alkalies.
Products of Decomposition:	Carbon monoxide, Nitrogen oxides, Hydrogen cyanide, Aromatic isocyanates.
Hazardous Reactions:	On contact with water, gaseous decomposition products are formed, which cause build-up of pressure in tightly closed containers. Risk of bursting. Reacts with substances which contain active hydrogen.

6. TOXICOLOGICAL PROPERTIES

Route of Entry:	
Skin Contact:	Yes
Skin Absorption:	No
Eye Contact:	Yes
Inhalation:	Yes
Ingestion:	Yes
Effects of Acute Exposure:	Toxic if swallowed. Eye contact may result in corneal opacity. Irritating to the eyes, respiratory system and skin. May cause sensitization by inhalation.
Carcinogenicity of material:	Not listed as a carcinogen by NTP, IARC or OSHA.
Reproductive effects:	No known effects..
Teratogenicity:	No known effects.
Mutagenicity:	No known effects.
Medical conditions aggravated by overexposure:	
<p>The isocyanate component is a respiratory sensitizer. It may cause allergic reaction leading to asthma-like spasms of the bronchial tubes and difficulty in breathing. Persons with a history of respiratory disease or hypersensitivity should not be exposed to this product. An animal study indicated that MDI may induce respiratory hypersensitivity following dermal exposure. Persons with asthmatic conditions, chronic bronchitis, other chronic respiratory diseases, recurrent eczema or pulmonary sensitization should be excluded from working with isocyanates. Once a person is diagnosed as having pulmonary sensitization (allergic asthma) to isocyanates, further exposure is not recommended. Contact may aggravate pulmonary disorders.</p>	

7. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eye Protection:	Tightly fitting safety goggles.
Skin Protection:	Chemical resistant protective gloves.
Respiratory Protection:	Wear NIOSH certified respiratory protection if ventilation is inadequate.
Engineering Controls:	General ventilation. Exhaust ventilation is recommended if used indoors on continuous basis. Provide local exhaust ventilation to maintain recommended P.E.L.
Leak/Spill Clean-Up Procedures:	Clear area. Ensure adequate ventilation. Wear respiratory protection, protective gloves and clothing. Pick up with suitable absorbent material. Shovel into open container. Do not make container pressure tight. Move container to a well-ventilated area (outside). Spill area can be decontaminated with the following recommended decontamination solution: Mixture of 90% water, 8% concentrated ammonia, 2% detergent. Add at a 10 to 1 ratio. Allow to stand for at least 48 hours to allow escape of evolved carbon dioxide.
Storage:	Formation of CO ₂ and build up of pressure possible. Keep containers tightly closed and in a dry, well-ventilated place. Segregate from bases.

8. FIRST AID MEASURES

In case of eye contact, immediately flush eyes with running water for a minimum of 20 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention IMMEDIATELY. For skin, wash thoroughly with soap and water. If irritation develops, get medical attention. If affected by inhalation of vapour, move to fresh air. If swallowed, do not induce vomiting. Rinse the mouth. Drink 1-2 glasses of milk to dilute product. Water may be used instead but not as effective. Obtain medical attention IMMEDIATELY.

9. TRANSPORT INFORMATION

Proper Shipping Name:	Not classified as a dangerous good under transport regulations.
UN Number:	Not Applicable.
Class or Division:	Not Applicable.
Sub Risk:	Not Applicable.
Packing Group:	Not Applicable.

10. REGULATORY INFORMATION

WHMIS Classification:	D1B – Very Toxic – Acute, Inhalation D2A – Very Toxic – Respiratory Tract Sensitizer D2B – Toxic – Skin/eye irritant
DSL Inventory:	All components are included on this inventory.
OSHA Hazard Category:	Highly toxic-inhalation; Sensitizer; Skin and/or eye irritant; Acute and Chronic target organ effects reported.
TSCA 8(b) Inventory:	All components are included on this inventory.
Sara 311/312 Hazard Categories:	Health – Acute, Chronic
Sara 313 Chemical:	Diisocyanates Compound Category

11. OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. This MSDS is valid for three years.

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