

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: HIPPO Liner, Part A, Canada VOC Compliant
 Product Stock: BHBLCR, Part A
 Product Code: 100500
 Synonyms: Not Applicable
 Chemical Family: Aromatic Isocyanate
 Molecular Formula: Mixture
 Product Use: Bed Liner Coating
 Prepared by: Regulatory Department
 Preparation Date: June 1, 2010

2. HAZARDOUS INGREDIENTS

Hazardous Ingredients	CAS Number	Wt. %	TLV	LD/50 Route, Species	LC/50 Route, Species
Toluene	108-88-3	15 – 40	50 ppm	5,500; 7000 mg/kg (oral-rat) 12,270 mg/kg (dermal-rbt)	49,000mg/ m ³ (rat, 4h) 30,000mg/ m ³ (2h)&19,900 mg/ m ³ (7h, mouse)
Polymeric Diphenylmethane Diisocyanate	9016-87-9	60 - 100	0.005 ppm	Not Available	490 mg/m ³ for MDI-see Note (RAT/4H)

Note: Polymeric diphenylmethane diisocyanate is known to contain free MDI (Methylenebis(phenylisocyanate), CAS#101-68-8).

2. HAZARDOUS INGREDIENTS (CONTINUED)

The other components of this product are not considered hazardous under applicable U.S. OSHA and/or Canadian WHMIS regulations.

NON-Hazardous Ingredients	CAS Number	Wt. %	TLV	LD/50 Route, Species	LC/50 Route, Species
Silica, fumed, amorphous, surface treated	67762-90-7	1-5	10 mg/m ³	Not Available	Not Available

3. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Amber
Odour	Aromatic
Odour Threshold	0.2 ppm
Boiling Point (Deg.C)	111 (Start)
Melting/Freezing Point (Deg. C)	Not Available
Vapour Density (Air = 1)	> 1
Specific Gravity (Estimate)	1.14
Vapour Pressure (mm Hg)	Not Available
Evaporation Rate, n-Butyl Acetate = 1	> 1
PH	Not Applicable
Solubility in Water	Partial

4. FIRE AND EXPLOSION HAZARD

Flammability:	Yes
If Yes, Under Which Conditions:	Excessive heat, sparks and open flame.
Flammability Limits in Air (%):	1.0 - 7.0
Flash Point (TCC deg.C)	4
Autoignition Temperature (Deg. C):	480
Hazardous Combustion Products:	Carbon monoxide, Nitrogen Oxides, Cyanides, Oxides of Silica.
Sensitivity to Mechanical Impact:	Not available. Not expected to be sensitive to mechanical impact.
Rate of Burning:	Not available.
Explosive Power:	Not available.
Sensitivity to Static Discharge:	Not available. Expected to be sensitive to static discharge when vapours in air are between the flammability limits.
Extinguishing Media:	Carbon Dioxide, dry chemicals, foam, water fog. In case of a large fire cool containers with water jet in order to prevent pressure build up, autoignition or explosion.

5. REACTIVITY DATA

Chemical Stability:	Yes, under normal conditions.
Compatibility with Other Substances:	No, with strong oxidizing agents.
Hazardous Products of Decomposition:	Carbon monoxide, Nitrogen oxides, Cyanides, Oxides of Silica.
Hazardous Polymerisation:	Will not occur.

6. TOXICOLOGICAL PROPERTIES

Route of Entry:	
Skin Contact:	Yes
Skin Absorption:	Yes
Eye Contact:	Yes
Inhalation:	Yes
Ingestion:	Yes

Effects of Exposure:	Vapors are irritating to the eyes, nose, throat and respiratory tract. Eye contact can cause tearing, eye reddening and swelling. Chronic eye exposure may result in corneal opacity. If eye is affected by liquid, corneal damage can occur and injury is slow to heal. Prolonged exposure to high vapor concentrations may be harmful and cause adverse effects including labored breathing, dizziness, drowsiness, and headache. Skin contact may cause reddening, itching, drying, cracking and blistering. Prolonged contact may lead to allergic dermatitis. Swallowing may cause burning of the mouth and stomach. Other possible effects are abdominal pain, nausea and diarrhea.
Carcinogenicity of material:	No information is available and no adverse Carcinogenic effects are anticipated.
Reproductive effects:	Animal tests show that toluene possibly causes toxicity to human reproduction or development.
Teratogenicity:	No information is available and no adverse Teratogenic effects are anticipated.
Mutagenicity:	No information is available and no adverse Mutagenic effects are anticipated.
Sensitization of the material:	Polyisocyanate: as a result of previous exposure, certain individuals develop sensitization which will cause them to react to a later exposure to product at levels well below the TLV. Symptoms include chest tightness, wheezing, cough, shortness of breath or asthma attack, could be immediate or delayed.

7. PREVENTIVE MEASURES

Eye Protection:	Chemical safety goggles with side shields is the minimum requirement.
Skin Protection:	Wear chemical resistant gloves.
Respiratory Protection:	Wear a NIOSH/MSHA approved respirator during spray operations or if exposure exceeds occupational limits (Toluene: 50 ppm, MDI: 0.005 ppm).
Engineering Controls:	Exhaust ventilation is recommended if used indoors on continuous basis.

Leak/Spill Clean-Up Procedures: Ventilate enclosed spaces. Collect product for disposal. Do not use combustible materials such as sawdust as an absorbent. Eliminate all sources of ignition. . Decontaminate area with solution: 93% water, 5% concentrated ammonia, 2% detergent. Let stand for at least 15 minutes. Notify applicable government authority if release is reportable or could adversely affect the environment.

Storage Instructions: Keep away from moisture, heat, sparks, and open flames.

8. FIRST AID MEASURES

In case of eye contact, immediately flush eyes with running water for a minimum of 15 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 or spray mist, 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: Coating Solution
UN Number: 1139
Class or Division: 3
Sub Risk: Not Applicable
Packing Group: II

NOTE: With an inner packaging < 1.0 L, this component may be renamed “Consumer Commodity” and reclassified as an ORM-D material as per DOT 173.150 (b) & (c).

10. REGULATORY INFORMATION

U.S. Federal Regulations

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 Hazard Category:

Irritant – skin and eyes; Respiratory and skin sensitizer; Flammable; target organ effects reported

Toxic Substances Control Act (TSCA): All components of this product are included on the TSCA inventory.

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA) Hazardous Substances:

Chemical Name	CAS Number	Reportable Quantity (RQ)
Toluene	108-88-3	1000
Methylene bis(phenylisocyanate)	101-68-8	5000

CAA, Section 112 Hazardous Air Pollutants:

Chemical Name	CAS Number	Concentration
Toluene	108-88-3	20 – 28 %
Methylene bis(phenylisocyanate)	101-68-8	~30 %

Superfund Amendments and Reauthorization Act (SARA) Title III Information:

SARA (EPCRA) Section 311/312 (40 CFR 370) Hazard Categories:

- Immediate Hazard: Yes
- Delayed Hazard: Yes
- Fire Hazard: Yes
- Pressure Hazard: No
- Reactivity Hazard: No

This product contains the following extremely hazardous substance(s) subject to the reporting requirements of SARA (EPCRA) Section 302:

Chemical Name	CAS Number	Concentration
None	NA	NA

This product contains the following toxic chemical(s) subject to reporting requirements of SARA (EPCRA) Section 313 (40 CFR 372)

Chemical Name	CAS Number	Concentration
Toluene	108-88-3	20 – 28 %
Polymeric Diphenylmethane Diisocyanate	9016-87-9	68 - 76
Methylene bis(phenylisocyanate)	101-68-8	~ 30 %

State Regulations

California: This product contains the following chemical(s) known to the State of California to cause cancer, birth defects or reproductive harm:

Component	CAS Number	Maximum %
Toluene	108-88-3	20 – 28 %

International Regulations**Canadian Workplace Hazardous Materials Information System (WHMIS):**

B2, D2A, D2B

Canadian Environmental Protection Act (DSL): All of the components of this product are included on the Canadian Domestic Substances list (DSL).

European Inventory of Existing Chemicals (EINECS): All of the components of this product are included on EINECS.

11. OTHER INFORMATION

VOC Compliance Statement:

Part A VOC Content – Less Exempts: 280 g/l (2.34 lbs/gal)

Part A VOC Content – Total Material: 280 g/l (2.34 lbs/gal)

Part A Density: 1.14 g/ml

Part A Volatiles Content: 24.5 % by weight

Part A Exempt Content: 0 % by weight (0 % by volume)

Coating Category: Truck Bed Liner Coating

Mixed Kit VOC Content, as applied:

– **Less Exempts:** 290 g/l (2.4 lbs/gal)

– **Total Material:** 275 g/l (2.3 lbs/gal)

Mixed kit VOC content meets the 310 g/l (2.6 lbs/gal) limit for Truck Bed Liner Coatings. Canada and California compliant. Do not thin with solvents.

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.**

The information contained herein is based on data considered accurate. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Dominion Sure Seal assumes no responsibility for personal injury or property damage to vendees or users or third parties, caused by the material. Such vendees or users assume all risks with the use of the material.