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
Product Stock:	BHBLUR, Part A
Product Code:	10001
Synonyms:	Not Applicable
Chemical Family:	Aromatic Isocyanate
Molecular Formula:	Mixture
Product Use:	Bed Liner Coating
Prepared by:	Regulatory Department
Preparation Date:	January 2, 2013

2. HAZARDOUS INGREDIENTS

Hazardous Ingredients	CAS Number	Wt. %	TLV	LD/50 Route, Species	LC/50 Route, Species
Polymeric Diphenylmethane Diisocyanate	9016-87-9	60 - 100	0.005 ppm	Not Available	490 mg/m^3 for MDI-see Note (RAT/4H)
Toluene	108-88-3	10 – 30	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)

2. HAZARDOUS INGREDIENTS (CONTINUED)

Hazardous Ingredients	CAS Number	Wt. %	TLV	LD/50 Route, Species	LC/50 Route, Species
p-Chlorobenzo trifluoride (PCBTF)	98-56-6	5 – 15	50 ppm	>6800; 13,000 mg/kg (oral-rat) >2700 mg/kg (dermal-rbt)	33,000;22,000 mg/m3 (rat, 4h) 20,000 mg/m3 (mouse)

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

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/m3	Not Available	Not Available

3. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Translucent, 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)	1.19

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: **Limited Quantity** (USA: inner packaging < 5.0 L, as per DOT 173.150 (b) & (c) and 172.102, special provision 149; CANADA: inner packaging < 5.0 L, as per TDG section 1.17).

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	10 – 18 %
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	10 – 18 %
Polymeric Diphenylmethane Diisocyanate	9016-87-9	65 - 75
Methylene bis(phenylisocyanate)	101-68-8	~ 30 %

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

Component	CAS Number	Maximum %
Toluene	108-88-3	10 – 18 %

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: 196 g/l (1.64 lb/gal)
Part A VOC Content – Total Material: 176 g/l (1.47 lb/gal)
Part A Density: 1.19 g/ml
Part A Volatiles Content: 26 % by weight
Part A Exempt Content: 11.3 % by weight (10 % by volume)

Coating Category: Truck Bed Liner Coating
Mixed Kit VOC Content, as applied:
– Less Exempts: 194 g/l (1.62 lb/gal)
– Total Material: 166 g/l (1.38 lb/gal)
Mixed kit VOC content meets the 200 g/l (1.67 lb/gal) limit for Truck Bed Liner Coatings. California and Canada 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.**

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