

**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 Bedliner Part A  
 Product Code: BHBL A  
 Synonyms: Not Applicable  
 Chemical Family: Aromatic Isocyanate  
 Molecular Formula: Mixture  
 Product Use: Coating  
 Prepared by: Regulatory Department  
 Preparation Date: June 9, 2004

**2. HAZARDOUS INGREDIENTS**

Hazardous Ingredients	CAS Number	Wt. %	TLV ppm	LD/50 Route, Species	LC/50 Route, Species
Toluene	000108-88-3	15-40	50	5,500 mg/Kg (ORL-RAT) 14,000 mg/Kg (DRML-RBT)	8,000 ppm/4H (RAT)
4,4' - Diphenylmethane Diisocyanate (MDI)	000101-68-8	15-40	0.005	10,000 mg/Kg (ORL-RAT) 6,200 mg/Kg (DRML-RBT)	Not Available
Diphenylmethane Diisocyanate (MDI)	026447-40-5	3-7	Not Available	Not Available	Not Available

**2. HAZARDOUS INGREDIENTS (CONTINUED)**

Hazardous Ingredients	CAS Number	Wt. %	TLV ppm	LD/50 Route, Species	LC/50 Route, Species
Higher Oligomers of MDI	009016-87-9	15-40	Not Available	Not Available	Not Available
Polyisocyanate based on MDI	075880-28-3	3-7	Not Available	Not Available	Not Available
Siloxanes and silicones, reaction products with silica	067762-90-7	3-7	10 mg/M3	5,000 mg/Kg (ORL-RAT)	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)	1.2
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 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

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Effects of Exposure:	Vapors are irritating to eyes, nose, throat and respiratory tract. Can cause tearing, eye reddening and swelling. If eye effected by liquid, corneal damage can occur and injury is slow to heal. 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:	No information is available and no adverse Reproductive effects are anticipated.
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**

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Eye Protection:	Chemical safety goggles with side shields is the minimum requirement.
Skin Protection:	Rubber gloves.
Respiratory Protection:	If exposure exceeds occupational limits (Toluene: 50 ppm, MIDI: 0.005 ppm), wear a NIOSH approved air-purifying respirator with organic vapour cartridges for mists and vapours.
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.

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Storage Instructions: Let stand for at least 15 minutes. Notify applicable government authority if release is reportable or could adversely affect the environment. Keep away from moisture, heat, sparks, and open flames.

**8. FIRST AID MEASURES**

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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**

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Proper Shipping Name:	Coating Solution
UN Number:	1139
Class or Division:	3
Sub Risk:	Not Applicable
Packing Group:	II

**10. REGULATORY INFORMATION**

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WHMIS Classification: B2, D2A, D2B

**11. OTHER INFORMATION**

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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.

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 Product Code: BHBL B  
 Synonyms: Not Applicable  
 Chemical Family: Organic  
 Molecular Formula: Mixture  
 Product Use: Coating  
 Prepared by: Regulatory Department  
 Preparation Date: June 9, 2004

**2. HAZARDOUS INGREDIENTS**

Hazardous Ingredients	CAS Number	Wt. %	TLV ppm	LD/50 Route, Species	LC/50 Route, Species
Toluene	000108-88-3	15-40	50	5,500 mg/Kg (ORL-RAT) 14,000 mg/Kg (DRML-RBT)	8,000 ppm/4H (RAT)
Aluminum Oxide	001344-28-1	1-5	10 mg/M3	Not Available	Not Available
Diethylene Glycol	000111-46-6	10-30	Not Available	12.6 g/Kg (ORL-RAT) 11.9 g/Kg (DRML-RBT)	Not Available

**2. HAZARDOUS INGREDIENTS (CONTINUED)**

Hazardous Ingredients	CAS Number	Wt. %	TLV ppm	LD/50 Route, Species	LC/50 Route, Species
Bis(2,2,6,6-Tetra-methyl-4-Piperidyl) Ester Decanedioic Acid	052829-07-09	1-5	10 mg/M3	3,100 mg/Kg (DRM-RBT)	3,700 mg/Kg / 4 HR (ORL-RAT)
Carbon Black	001333-86-4	1-5	3.5 mg/M3	Not Available	Not Available
Silicon Oxide	007631-86-9	1-5	10 mg/M3	Not Available	Not Available

**3. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State	Liquid
Appearance	Black
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)	1.0
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, Oxides of nitrogen, 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 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, strong acids, strong bases.
Hazardous Products of Decomposition:	Carbon monoxide, Nitrogen oxides, 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

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Effects of Exposure:	Vapors are irritating to eyes, nose, throat and respiratory tract. Prolonged exposure to high vapor concentrations may cause headache. May cause defatting, itching, drying and cracking of the skin. Prolonged and repeated contact may lead to dermatitis. Swallowing may cause burning of the mouth and stomach, blindness and death. Other possible effects are nausea and diarrhea.
Carcinogenicity of material:	No information is available and no adverse Carcinogenic effects are anticipated.
Reproductive effects:	No information is available and no adverse Reproductive effects are anticipated.
Teratogenicity:	No information is available and no adverse Teratogenic effects are anticipated.
Mutagenicity:	No information is available and no adverse Mutagenic effects are anticipated.

**7. PREVENTIVE MEASURES**

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Eye Protection:	Use chemical safety goggles with side shields.
Skin Protection:	Rubber gloves.
Respiratory Protection:	If exposure exceeds occupational limits (50 ppm), wear a NIOSH approved air-purifying respirator with organic vapour cartridges for mists and vapours.
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. Notify applicable government authority if release is reportable or could adversely affect the environment.
Storage Instructions:	Keep away from heat, sparks, and open flames.

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Class or Division:	3
Sub Risk:	Not Applicable
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