

Material Safety Data Sheet



Revised 02/11

Delastic® Preformed Pavement Seals | DSB 1520 Lubricant Adhesive

TRANSPORTATION EMERGENCY CALL CHEMTREC @ (800) 424-9300

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). Where a proprietary ingredient is shown, the identity may be made available as provided in this standard.

SECTION I – Product Name/Manufacturer

Product Name: DSB 1520 Lubricant Adhesive

Company: The D.S. Brown Company
300 East Cherry Street
North Baltimore, Ohio 45872
Phone: (419) 257-3561 Fax: (419) 257-2200

Supersedes: July 27, 2006

Chemical Family: Polyisocyanate prepolymer (MDI base) and petroleum hydrocarbon

SECTION II – Composition/Data on Components

EXPOSURE LIMITS*

	CASNO	TLV	STEL	PEL	CONTENT
Modified Diphenylmethane Diisocyanate	Proprietary	0.005ppm	0.02ppm	None	<70%
Diphenylmethane Diisocyanate	26447-40-5	None	None	None	<20%
Contains: 4,4' – Diphenylmethane Diisocyanate	101-68-8	005ppm	02ppm	None	--
Aromatic petroleum distillate	6474-67-9	10ppm	15ppm	10ppm	<11%
Contains: Naphthalene	91-20-3	10ppm	15ppm	10ppm	--
Stoddard solvent	8052-41-3	100ppm	500ppm	100ppm	<17%

*) Refer to Section 7 for available LD/LC (50) Health Hazard Data.

SECTION III – Physical Data

Boiling Point (°C): <105

Percent Volatile: Ca. 70

Freezing Point (°C): N/Av

Vapor Pressure mmHg @20 (°C): 20

Vapor Density: 4.5

Odor Threshold: (ppm) N/Av

Appearance: Clear liquid

Water/oil Distribution Coefficient: N/Av

Solubility in Water: None

Specific Gravity: 0.95

pH: N/Av

Evaporation Rate: 10ppm

Odor: Aromatic

N/Av = Not Available

N/Av = Not Applicable

Ca. = Approximate

SECTION IV – Fire and Explosion Hazard Data

HMIS Hazard Rating No. 2 (Moderate)

Flash Point: 39°C (102°F)

Method: Tagliabue C.C.

Auto-Ignition Temperature: Not Available

Limits of Flammability: LEL 1.0%

UEL: 6.5%

Extinguishing Media: Carbon dioxide, foam, dry chemical & water fog

Special Fire and Unusual Hazards: At higher temperature vapors can cause pressure buildup in sealed containers. Use water to cool containers exposed to fire. Self-contained respirator equipment and full protective clothing required when smoke or fumes are generated. Electrical grounding is not recommended.

SECTION V – Reactivity Data

HMIS Hazard Rating No. 1 (Slight)

Stability: Avoid contact with moisture. Reaction evolves CO₂. Do not store at temperatures above 27° C (80°F). Not sensitive to mechanical impact.

Incompatibility: Strong oxidizing and reducing agents, strong acids and bases, peroxides and amines. Avoid sources of ignition.

Hazardous Decomposition Products: Oxides of carbon and nitrogen; MDI; traces of hydrogen cyanide and various unknown hydrocarbons from incomplete combustion

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Hazardous Polymerization: Will not occur when handled per instructions.

SECTION VI – Environmental and Disposal Information

Spills/ Leaks: Ventilate area, eliminate all sources of ignition. Prevent from entering sewers and waterways. Wear skin, eye and respiratory protection during cleanup. Soak up material with absorbent material and shovel into a chemical waste container. Cover container but do NOT seal, and then remove from area. Wash down area with a mixture of liquid detergent (0.2%-0.5%) and ammonium hydroxide (3-8%) in water. Treat the spill area with about 10 parts of solution for each part of material spilled and allow it to react for at least ten (10) minutes. Carbon dioxide will be evolved, leaving insoluble polyureas. Slowly stir the isocyanate waste into the decontamination solution, at about 1 part waste to 10 parts solution. Let stand for 48 hours, allowing carbon dioxide to vent away. Neutralize the waste. Neither the solid nor the liquid portion is a hazardous waste under RCRA, 40 261.

Waste Disposal Method: Recommendations: Use excess product in an alternate beneficial application. Handle disposal of waste material in accordance with local, state, province and federal regulation. Incineration at agency approved waste disposal facilities.

SECTION VII – Health Hazard Data

HMIS Hazard Rating No. 2 (Moderate)

Primary Route of Entry: Inhalation, dermal, eyes, ingestion

Effects of Overexposure

Inhalation: Vapors can be irritating to mucus membranes in respiratory tract, burning sensation in nose, throat and lungs. Symptoms include runny nose, dry or sore throat, coughing, chest discomfort, shortness of breath, wheezing, laryngitis and reduced lung function. Coughing and chest pain or tightness may also occur, frequently at night. These symptoms may be delayed up to several hours after exposure. Respiratory sensitivity can result in allergic reaction or asthma-like symptoms and subsequent exposure even below the TLV.

Eyes: May cause severe irritation, tearing and blurred vision and possibly corneal injury.

Skin Contact: Prolonged or repeated exposure may cause skin irritation, redness, skin damage and possible allergic type symptoms causing rash, itching and hives. Data exists showing that repeated dermal exposure can lead to respiratory sensitization.

Skin Absorption: Not expected to be absorbed through skin in sufficient quantity to increase overall toxicity.

LD (50) Dermal CASRN 26447-40-5 94000 mg/kg Rat.

Ingestion: Harmful or fatal if swallowed; contains petroleum distillates. Intake may cause gastrointestinal irritation nausea, vomiting diarrhea, headache and drowsiness.

LD (50) Oral CASRN 266447-40-5 9400 mg/kg. Rat.
Modified MDI >5000 mg/kg. Rat

Chronic: Product does not contain carcinogenic materials as defined by OSHA Hazardous Communications Act 1910.1200. Materials are not known mutagenic, teratogenic or reproductive health hazards. Once scientific study of workers reported that exposure of isocyanate type chemicals resulted in larger declines in lung function compared to other workers.

SECTION VIII – First Aid

Inhalation: Remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration, preferably mouth-to-mouth. Seek medical attention.

Eyes: Flush eyes with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.

Skin: Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.

Ingestion: Do NOT induce vomiting; give large quantities of water; get immediate medical attention. If vomiting occurs spontaneously, keep head low below hips to prevent aspiration of liquids into lungs. Do NOT give anything by mouth to an unconscious person.

SECTION IX – Special Protection Information

Ventilation: Ventilation is recommended. Air movement must be designed to ensure turnover at all locations in area to avoid buildup of heavy vapors.

Personal Protection Equipment: Use chemical goggles/safety glasses with side shields and chemical resistant gloves. Wear NIOSH/MSHA respiratory protection whenever airborne concentrations exceed applicable TLV or TWA limits. Work-site conditions will vary and appropriate measures must be taken.

Confined spaces, rooms or tanks are areas where concern for TLVs is especially important. Reference OSHA Regulation 29 CFR 1910.134 for recommended respiratory protection.

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Handling and Storage Information: Store in temperature range of 50 to 80°F (10 to 27°C). Store away from sources of ignition. Keep containers tightly sealed, avoid air and moisture contamination.

Regulatory Information:

Title III Section 302:	CASRN	101-68-8	RQ:	5000	LB
Title III Section 311/312 Hazard Category:	Acute Health Hazard, Fire Physical Hazard, Reactive Physical Hazard				
Title III 313:	CASRN	101-68-8	RQ:	<70%	
State: California	No reportable chemicals				
WHMIS Classification:	D2B, B2				
Canadian Domestic Substance List:	All chemicals are listed.				

Transportation:

Emergency Response Guide No:	127				
DOT Reportable Quantity:	N/A				
Proper Shipping Name:	ADHESIVE				
UNNO:	UN 1133	Class 3	Package Group III		
Label:	FLAMMABLE	Sub-Label: NONE			

Marine Pollutant: NL
P = Moderate PP = Severe WS = Water Sheen NL = Not Listed ND = Not Determined

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