

Section 1. Identification

Trade Name	: DSB 1520
Recommended Use	: Adhesive Lubricant
Restrictions on Use	: No data.
Supplier/Manufacturer	: The D.S. Brown Company 300 East Cherry Street North Baltimore, Ohio 45872 419-257-3561
In Case of Emergency	: Chemtrec 1-800-262-8200 International 01-703-741-5500
Information Department	: Environmental, Health and Safety Department

Section 2. Hazards Identification

EMERGENCY OVERVIEW

OSHA Hazards	: Flammable liquid and vapor. Causes serious eye irritation. causes skin irritation. May cause allergic skin reaction. Harmful if swallowed or inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May damage fertility or the unborn child.
GHS Classification	: Flammable Liquids Category 3 Eye Irritation – Category 2A Skin Corrosion/Irritation – Category 2 Acute Toxicity – Oral Category 4 Acute Toxicity – Inhalation Category 4 Sensitization – Respiratory – Category 1 Sensitization – Skin – Category 1 Specific Target Organ Toxicity – Single Exposure Category 3 Specific Target Organ Toxicity – Repeated Exposure Category 2 Reproductive Toxicity – Category 1

LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

Pictograms	: 
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Signal Word	: Danger
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Wear protective gloves/protective clothing/eye protection/face protection.

Section 2. Hazards Identification *cont'd.*

Hazard Statements	<ul style="list-style-type: none"> : H226 Flammable liquid and vapor. H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H373 May cause damage to organs (respiratory system) through prolonged and repeated exposure by inhalation. H360 May damage fertility or the unborn child.
Precautionary Statement(s)	<ul style="list-style-type: none"> Prevention : P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P260 Do not breathe dust/fume/gas/mist/vapors/spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear eye protection/face protection/protective gloves/protective clothing. P284 In case of inadequate ventilation wear respiratory protection.
Response	<ul style="list-style-type: none"> : P301 If Swallowed: Call Poison Center/doctor if you feel unwell. Rinse mouth. P312 If Swallowed: Call Poison Center/doctor if you feel unwell. Rinse mouth. P330 If Swallowed: Call Poison Center/doctor if you feel unwell. Rinse mouth. P302 If On Skin: Wash with plenty of soap and water. P352 If On Skin: Wash with plenty of soap and water. P333 If skin irritation or rash occurs: Get medical advice/attention. P313 If skin irritation or rash occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P364 Take off contaminated clothing and wash before reuse. P304 If Inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. P340 If Inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. P312 If Inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Section 2. Hazards Identification *cont'd.*

Response <i>cont'd.</i>	: P342 If experiencing respiratory symptoms: Call a POISON CENTER/doctor
	P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor
	P305 If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P351 If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P338 If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P337 If eye irritation persist: Get medical advice/attention.
	P313 If eye irritation persist: Get medical advice/attention.
	P370 In case of fire use, dry chemical, alcohol resistant foam, halon or carbon dioxide to extinguish.
	P378 In case of fire use, dry chemical, alcohol resistant foam, halon or carbon dioxide to extinguish.
	P314 Get medical advice/attention if you feel unwell.
	P312 If exposed or concerned: Get medical advice/attention.
Storage	: P403 Store in a well-ventilated place. Keep container tightly closed.
	P233 Store in a well-ventilated place. Keep container tightly closed.
	P405 Store locked up.
Disposal	: P501 Dispose of contents/container in accordance with local/regional/national regulations.
Hazards Not Otherwise Classified	: None known.

Section 3. Composition/Information on Ingredients

Ingredients (CAS #)	: Urethane Prepolymer [(Not Available); Reaction Product of: Polyether Polyol \ (9082-00-2); Methylenediphenyl diisocyanate (26447-40-5); Polypropylene glycols (25322-69-4); Toluene Diisocyanates (26471-62-5)]; 2-Propanol, 1 methoxy-, acetate (108-65-6); 1-Methyl-2-pyrrolidone (872-50-4); Titanium Dioxide (13463-67-7); Iron Oxide (1317-61-9). This product contains chemicals listed by the State of California as being known to cause cancer, birth defects or other reproductive harm.
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Section 4. First Aid Measures

General Advice	: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Inhalation	: If Inhaled: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a Poison Center/doctor.
Eye Contact	: If In Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Ingestion	: If Swallowed: Immediately call a Poison Center/doctor. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth if conscious.
Skin Contact	: If On Skin (or Hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash off with soap and plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

Section 5. Fire-Fighting Measures

Suitable Extinguishing Media	: Alcohol-resistant foam, dry chemical, halon or carbon dioxide.
Special Hazards Arising from the Chemical	: In a fire or if heated a pressure increase will occur and the container may burst. Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger.
Hazardous Combustion Products	: Hazardous decomposition products formed under fire conditions, Carbon and Nitrogen oxides, isocyanate, isocyanic acid, dense black smoke.
Protective Equipment and Precautions for Fire-Fighters	: Wear self-contained breathing apparatus and full protective gear for fire-fighting.
Further Information	: Use water spray to cool unopened containers. See Section 7 for safe handling and storage.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	: Use personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation. Remove all sources of ignition. Evacuate Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Environmental Precautions	: Prevent further leakage or spillage if safe to do so. Do not let product enter drains or waterways.
Methods and Materials for Containment and Cleaning Up	: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Ensure adequate ventilation.

Section 7. Handling and Storage

- Precautions for Safe Handling** : Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Take measures to prevent the buildup of electrostatic charge. Use non-sparking tools. Wash hands and skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
- Conditions for Safe Storage, Including Any Incompatibilities** : Keep container tightly closed in a dry, cool and well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8. Exposure Controls/Personal Protection

EXPOSURE CONTROLS

Ingredient Name	CAS No.	Exposure Limits
2-methoxy-1-methylethyl Acetate	108-65-6	TWA 50 ppm, ALHA.
4,4-Methylenediphenyl diisocyanate	101-68-8	ACGIH TWA 0.005 ppm OSHA Ceiling 0.2 mg/m ³ , 2 ppm
1-Methyl-2-pyrrolidone	872-50-4	TWA 10 ppm

- Appropriate Engineering Controls** : Local ventilation: recommended.
General ventilation: recommended.

INDIVIDUAL PROTECTION MEASURES, SUCH A PERSONAL PROTECTIVE EQUIPMENT

- Eye/Face Protection** : Use proper protection – safety glasses as a minimum.
- Skin and Body Protection** : Wash at mealtime and end of shift. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc.). Use chemical protective gloves as a minimum and wash skin promptly upon any skin contact.
- Respiratory Protection** : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.
- General Hygiene Considerations** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before & after breaks and work day.

Section 9. Physical and Chemical Properties

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Liquid
Appearance	: Pigmented liquid.
Color	: Opaque
Odor	: Slightly musty.
Odor Threshold	: No data.
Vapor Pressure	: Not available.
Vapor Density	: Not available.
Relative Density	: Not available.
pH:	: Not relevant.
Melting/Freezing Point	: Not relevant.
Solubility	: Reacts slowly with water to liberate CO ₂ gas.
Evaporation Rate	: Not available.
Flash Point	: 47°C (116°F) Remarks-Method: P.M. Closed Cup ASTM D93
Flammability Limits	: No data.
Flammability (Solid, gas)	: Not relevant.
Auto Ignition Temperature	: Not available.
Initial Boiling Point/ Boiling Range	: 406°F (208°C)
Decomposition Temperature	: Not available.
Viscosity	: Not available.
Specific Gravity	: 1.08 at 20°C Remarks-Method: 9.0 Lbs./gal.

Section 10. Stability and Reactivity

Chemical Stability	: Stable under recommended storage conditions.
Possibility of Hazardous Reactions	: Hazardous polymerization will not occur under recommended storage conditions.
Conditions to Avoid	: Heat, Flames and Sparks.
Incompatible Materials	: Keep away from water, amines, strong bases, alcohols.
Hazardous Decomposition Products	: Hazardous decomposition products formed under fire conditions, Carbon and Nitrogen oxides, isocyanate, isocyanic acid, dense black smoke.

Section 11. Toxicological Information

- Likely Routes of Exposure** : Inhalation, skin contact, eye contact.
Ingestion is not a likely route of exposure under normal working conditions.
- Symptoms of Exposure** : May cause allergic skin reaction, Causes serious eye irritation, May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Delayed and Immediate Effects as Well as Chronic Effect from Short-and Long-Term Exposure** : Repeated Exposure may cause skin dryness and cracking.
- Carcinogenic Categories** : Product is not expected to be carcinogenic.
- Other Chronic Effects** : None known.

Numerical Measures of Toxicity

Product	Test	Species	Test Results
2-methoxy-1-methylethyl acetate	Oral LD50	Rat	6,190 mg/kg
	Dermal LD50	Rabbit	>5,000 mg/kg
	Inhalation LC50	Rat	6 hrs. >4345 ppm
4,4-Methylenediphenyl diisocyanate	Oral LD50	Rat	9,200mg/kg
	LC50 Inhalation	Rat	1h >2.24 mg/l

Section 12. Ecological Information

ECOTOXICAL EFFECTS

Remark : Material may be toxic to aquatic organisms.

Acute Toxicity: : Fish

Components	Test	Species	Test Results
2-methoxy-1-methylethyl Acetate	LC50	Fathead Minnow	96 hr, 161 mg/l

Acute Toxicity: : Invertebrates

Components	Test	Species	Test Results
2-methoxy-1-methylethyl Acetate	EC50	Water Flea	48 hr, 408 mg/l

Persistence and Degradability : No data available.

Bioaccumulative Potential : No data available.

Mobility : No data available.

Other Adverse Effects : No data available.

Section 13. Disposal Considerations

- Waste Treatment Methods
Disposal of Wastes** : Under RCRA 40 CFR 261 this material is a hazardous waste. Dispose of in accordance with all federal, state, and local regulations. If uncertain of local requirements, contact the proper environmental authorities for information on waste disposal in your area. Contact a licensed professional waste disposal service to dispose of this material.
- Contaminated Packaging** : Dispose of as unused product.

Section 14. Transport Information

- DOT** : UN1133, ADHESIVE, 3, III (US Ground Shipments Not Regulated in Non-Bulk packaging <119 gallons)
- IATA** : UN1133, ADHESIVE, 3, III
- IMDG** : UN1133, ADHESIVE, 3, III
Marine Pollutant: No

Section 15. Regulatory Information *cont'd.*

INTERNATIONAL INVENTORIES

- TSCA (Toxic Substances Control Act)** : All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

US FEDERAL REGULATIONS

- SARA 302:**
- | | | |
|--|----------------|--------|
| CERCLA
4,4-Methylenediphenyl diisocyanate | CAS#: 101-68-8 | 10-15% |
| Toluene Diisocyanates | CAS#: 584-84-9 | <1% |
- SARA 311/312 Hazard:
Categories** : Acute: Yes, Fire: Yes, Chronic: Yes
- SARA 313 Hazard**
- | | | |
|------------------------------------|----------------|--------|
| 4,4-Methylenediphenyl diisocyanate | CAS#: 101-68-8 | 10-15% |
| Toluene Diisocyanates | CAS#: 584-84-9 | <1% |
| 1-Methyl-2-pyrrolidone | CAS#: 872-50-4 | 10-15% |
- SARA Extremely Hazardous Substances (EHS)/CERCLA Hazardous Substances** : None known.

Section 15. Regulatory Information *cont'd.*

CWA (Clean Water Act) : This product contains organic solvents and may be subject to regulation by Section 311 of the Clean Water Act and the Oil Pollution Act. Releases of the product into or leading to surface waters must be reported to the National Response Center at 1-800-424-8802.

SUPPLEMENTAL STATE COMPLIANCE INFORMATION

California : **Warning:** This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm. 1-Methyl-2-pyrrolidone

States Right To Know	:	2-methoxy-1-methylethyl Acetate	CAS# 108-65-6	New Jersey Pennsylvania
		4,4-Methylenediphenyl diisocyanate	CAS#: 101-68-8	Massachusetts New Jersey Pennsylvania
		Oxirane, methyl-, polymer with oxirane	CAS#: 9082-00-2	Massachusetts New Jersey Pennsylvania
		1-Methyl-2-pyrrolidone	CAS#: 872-50-4	Massachusetts New Jersey Pennsylvania
		Titanium Dioxide	CAS#: 13463-67-7	Massachusetts New Jersey Pennsylvania
		Toluene Diisocyanates	CAS#: 584-84-9	Massachusetts New Jersey Pennsylvania

U.S. EPA Label Information : No data.



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Section 15. Regulatory Information *cont'd.*

CANADA

WHMIS Classification : Class D2B & B3 (Toxic & Flammable)

Symbol : Stylized T & Flammable



Section 16. Other Information

HMIS Classification : Health hazard: 2
Flammability: 2
Physical Hazards: 0

NFPA Rating : Health hazard: 2
Fire: 2
Reactivity Hazard:

Issue Date : 10/31/15

Revision Date : 10/31/15

Revision Note : GHS Format

Date of Previous Version : 11/4/15

Disclaimer : The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.