


## Section 1. Identification

<b>Product Identifier/ Trade Name</b>	: DSB 1516 Lubricant Adhesive
<b>Relevant Identified Uses of the Substance or Mixture</b>	: Adhesive
<b>Supplier</b>	: The D.S. Brown Company 300 East Cherry Street North Baltimore, Ohio 45872 419-257-3561
<b>Information Department</b>	: Environment protection department.
<b>In Case of Emergency</b>	: Chemtrec: Day or Night within USA and Canada: 1-800-424-9300

## Section 2. Hazards Identification

<b>Classification of the Substance or Mixture</b>	: GHS02 Flame Flam. Liq. 2 H225 Highly flammable liquid and vapor.  GHS08 Health Hazard Carc. 2 H351 Suspected of causing cancer. Repr. 2 H361 Suspected of damaging fertility on the unborn child. STOT RE 2 H373 May cause damage to the hearing organs through prolonged or repeated exposure. Asp. Tax. 1 H304 May be fatal if swallowed and enters airways.  GHS07 Skin Irrit. 2 H315 Causes skin irritation.
<b>Label Elements</b>	: GHS Label Elements: the product is classified and labeled according to the Globally Harmonized System (GHS).
<b>Hazard Pictograms</b>	: 
<b>Signal Word</b>	: <b>DANGER</b>
<b>Hazard Statements</b>	: Highly flammable liquid and vapor. Causes skin irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to the hearing organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.
<b>Precautionary Statements</b>	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Keep container tightly closed.

## Section 2. Hazards Identification *cont'd.*

- Precautionary Statements** : Ground/bond container and receiving equipment.  
 Use explosion-proof electrical / ventilating / lighting / equipment.  
 Use only non-sparking tools.  
 Take precautionary measures against static discharge.  
 Do not breathe dust / fume / gas / mist / vapors / spray.  
 Wash thoroughly after handling.  
 Wear protective gloves/protective clothing / eye protection / face protection.  
 Do not handle until all safety precautions have been read and understood.
- If Swallowed** : **Immediately call a poison center/doctor.**  
 Specific treatment (see on this label).  
 Do NOT induce vomiting.
- If On Skin (or Hair)** : Take off immediately all contaminated clothing. Rinse skin with water/shower.
- If Exposed or Concerned** : Get medical advice / attention.  
 Take off contaminated clothing and wash it before reuse.
- Get Medical Advice/  
Attention** : If you feel unwell.
- If Skin Irritation Occurs** : Get medical advice / attention.
- In Case of Fire** : Use for extinction: CO<sub>2</sub>, powder or water spray.  
 Store in a well-ventilated place. Keep cool.  
 Store locked up.  
 Dispose of contents / container in accordance with local / regional / national / international regulations.
- Classification System** : NFPA Ratings (Scale 0-4)  
 Health = 1  
 Fire = 3  
 Reactivity = 0  
 HMIS Ratings (Scale 0-4)  
 Health = 1  
 Fire = 3  
 Physical Hazard = 0
- Other Hazards** : Results of PBT and vPvB assessment  
 PBT Not applicable.  
 vPvB Not applicable.

### Section 3. Composition/Information on Ingredients

**Chemical Characterization** : Mixtures

**Description** : Mixture

**Dangerous Components** :

CAS No.	Name	%
1330-20-7	xylene	25-50%
108-88-3	toluene	5-20%
100-41-4	ethylbenzene	5-20%

### Section 4. First Aid Measures

#### DESCRIPTION OF FIRST AID MEASURES

- After Inhalation** : Supply fresh air or oxygen; call for doctor.  
In case of unconsciousness; place patient stably in side position for transportation.
- After Skin Contact** : Immediately wash with water and soap and rinse thoroughly.
- After Eye Contact** : Rinse opened eye for 20 minutes under running water. **Call a doctor immediately.**
- After Swallowing** : Rinse out mouth with water. DO NOT induce vomiting. **Immediately call for medical help.**

#### INFORMATION FOR DOCTOR

- Most Important Systems and Effects, Both Acute and Delayed** : No further relevant information available.
- Indication of Any Immediate Medical Attention and Special Treatment Needed** : No further relevant information available.

### Section 5. Fire-Fighting Measures

#### EXTINGUISHING MEDIA

- Suitable Extinguishing Media** : CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray. Use fire fighting measures that suit the environment.

#### ADVICE FOR FIREFIGHTERS

Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, ggloves, rubber boots, and in enclosed spaces, SCBA.

- Protective Equipment** : Protective clothing and respiratory protective device.

## Section 6. Accidental Release Measures

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

**For Safety Reasons** : Wear protective equipment.  
Keep unprotected persons away.  
Ensure adequate ventilation.

### ENVIRONMENTAL PRECAUTIONS

**For Safety Reasons** : Do not allow to enter sewers / surface or ground water.

**Methods and Material for Containment and Cleaning Up** : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste in accordance with federal, state, and local regulations.  
Ensure adequate ventilation.

**Reference to Other Sections** : See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal information.

### PROTECTIVE ACTION CRITERIA FOR CHEMICALS

#### PAC-1

1330-20-7	xylene	130 ppm
108-88-3	toluene	67 ppm
100-41-4	ethylbenzene	33 ppm
50-00-0	formaldehyde	0.90 ppm

#### PAC-2

1330-20-7	xylene	920* ppm
108-88-3	toluene	560 ppm
100-41-4	ethylbenzene	1100* ppm
50-00-0	formaldehyde	14 ppm

#### PAC-3

1330-20-7	xylene	2500* ppm
108-88-3	toluene	3700* ppm
100-41-4	ethylbenzene	1800* ppm
50-00-0	formaldehyde	56 ppm

## Section 7. Handling and Storage

- Precautions for Safe Handling** : Open and handle receptacle with care.  
Ensure good ventilation / exhaust at the workplace.  
Prevent formation of aerosols.
- Information About Protection Against Explosions and Fires** : Keep container closed when not in use.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

### CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES

- Requirements To Be Met By Storerooms and Receptables** : Store in a cool location away from direct heat.
- Information About Storage In One Common Storage Facility** : Store away from oxidizing agents.
- Further Information About Storage Conditions** : Keep receptacle tightly sealed.
- Specific End Use(s)** : No further relevant information available.

## Section 8. Exposure Controls/Personal Protection

- Additional Information About Design of Technical Systems** : No further data; see item 7.

- Control Parameters** : Components with limit values that require monitoring at workplace:

#### 1330-20-7 xylene (25-50%)

PEL	Long-term value: 435 mg/m <sup>3</sup>	100 ppm
REL	Short-term value: 655 mg/m <sup>3</sup>	150 ppm
	Long-term value: 435 mg/m <sup>3</sup>	100 ppm
TLV	Short-term value: 651 mg/m <sup>3</sup>	150 ppm
	Long-term value: 434 mg/m <sup>3</sup>	100 ppm
	BEI	

#### 108-88-3 toluene (5-20%)

PEL	Long-term value:	200 ppm
	Ceiling limit value: 300;	500*ppm
	*10-min. peak per 8-hr shift	
REL	Short-term value: 560 mg/m <sup>3</sup>	150 ppm
	Long-term value: 375 mg/m <sup>3</sup>	100 ppm
TLV	Long-term value: 75 mg/m <sup>3</sup>	20 ppm
	BEI	

## Section 8. Exposure Controls/Personal Protection *cont'd.*

### Control Parameters

<b>100-41-4 ethylbenzene (2.5-10%)</b>		
PEL	Long-term value: 435 mg/m <sup>3</sup>	100 ppm
REL	Short-term value: 545 mg/m <sup>3</sup>	125 ppm
	Long-term value: 435 mg/m <sup>3</sup>	100 ppm
TLV	Long-term value: 87 mg/m <sup>3</sup>	20 ppm
	BEI	

### Ingredients with Biological Limit Values

<b>1330-20-7 xylene (25-50%)</b>	
BEI	1.5 g/g creatinine
	Medium: Urine
	Time: End of shift.
	Parameter: Methylhippuric acids.

#### **108-88-3 toluene (5-20%)**

BEI	0.02 mg/L
	Medium: Blood
	Time: Prior to last shift of workweek.
	Parameter: Toulene



	0.03 mg/L
	Medium: Urine
	Time: End of shift
	Parameter: Toluene

	0.3 mg/g creatinine
	Medium: Urine
	Time: End of Shift
	Parameter: o-Cresol with hydrolysis (background)

#### **100-41-4 ethylbenzene (2.5-10%)**

BEI	0.7 g/g creatinine
	Medium: Urine
	Time: End of shift at end of workweek.
	Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
	-
	Medium: End-exhaled air
	Time: Not critical
	Parameter: Ethyl benzene (semi-quantitative)

## Section 8. Exposure Controls/Personal Protection *cont'd.*

- Additional Information** : The lists were valid during the creation were used as basis.
- Exposure Controls**
- Personal Protective Equipment** : See listings that follow.
- General Protective and Hygienic Measures** : Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the skin.  
Avoid contact with the eyes and skin.
- Breathing Equipment** : Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.
- Protection of Hands** :  Protective gloves.
- The glove material has to be impermeable and resistant to the product / the substance / the preparation.
- Material of Gloves** : Nitrile rubber, NBR  
The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- Penetration Time of Glove Material** : The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye Protection** : Safety glasses with side shields.
-  Tightly sealed goggles.
- Body Protection** : Protective work clothing.

## Section 9. Physical and Chemical Properties

### Appearance

**Form** : Liquid  
**Color** : Hazy amber.

**Odor** : Characteristic

**Odor Threshold** : Not determined.

**pH-value** : Not applicable.

### Change in Condition

**Melting Point** : Undetermined

**Boiling Point** : 110°C (230°F)

**Flash Point** : 4°C (39.2°F)

**Ignition Temperature** : 500°C (932°F)

**Auto Igniting** : Product is not selfigniting.

**Danger of Explosion** : Product is not explosive. However, formation of explosive air / vapor mixtures are possible.

### Flammable Limits

**Lower** : 1.1 Vol %

**Upper** : 7.0 Vol %

**Vapor Pressure at 20°C (68°F)** : 29 hPa (21.8 mm Hg)

**Specific Gravity at 20°C (68°F)** : 0.94 g/cm<sup>3</sup> (7.8443 lbs/gal)

**Relative Density** : Not determined.

**Vapor Density** : Not determined.

**Evaporation Rate** : Not determined.

**Solubility In / Miscibility with Water** : Not miscible or difficult to mix.

### Solvent Content

**Organic Solvents** : Not available

**Solids Content** : 26.0%

### Other Information

**VOC** : 693 G/L (5.77 lbs/gal)

**Weight per Gallon** : 7.80

**SCAQMD** : 693 G/L

*Note: this product does not comply with the SCAQMD Rule 1168 method.*



## Section 10. Stability and Reactivity

<b>Reactivity</b>	: No further relevant information available.
<b>Chemical Stability</b>	
<b>Thermal Decomposition / Conditions to Avoid</b>	: No decomposition if used according to specifications.
<b>Possibility of Hazardous Reactions</b>	: No dangerous reactions known.
<b>Conditions to Avoid</b>	: Heat, flames, sparks.
<b>Incompatible Materials</b>	: Reacts with oxidizing agents.
<b>Hazardous Decomposition Products</b>	: Carbon monoxide and carbon dioxide Hydrogen chloride (HCl)

## Section 11. Toxicological Information

**Acute Toxicity** : LD/LC50 values that are relevant for classification:

### 1330-20-7 xylene

Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)

### 108-88-3 toluene

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mouse)

### 100-41-1 ethylbenzene

Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	17,800 mg/kg (rabbit)

**Primary Irritant Effect**

**On the Skin** : Skin irritant.

**On the Eye** : May irritate the eye.  
Vapors may be irritating to the eyes.

**Sensitization** : No sensitizing effects known.

**Additional Toxicology Information** : The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful  
Irritant

**Carcinogenic Categories**

<b>IARC (International Agency for Research on Cancer)</b>	1330-20-7	xylene	3
	108-88-3	toluene	3
	9010-98-4	Polychloroprene Polymer	3
	100-41-4	ethylbenzene	2B
	50-00-0	formaldehyde	1

## Section 11. Toxicological Information *cont'd.*

<b>NTP (National Toxicology Program)</b>	: 50-00-0	formaldehyde	K
<b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>	: 50-00-0	formaldehyde	

## Section 12. Ecological Information

### Toxicity

<b>Aquatic Toxicity</b>	: No further relevant information available.
<b>Persistence and Degradability</b>	: No further relevant information available.

### Behavior in Environmental Systems

<b>Bioaccumulative Potential</b>	: No further relevant information available.
<b>Mobility in Soil</b>	: No further relevant information available.

**Additional Ecological Information** : General Notes: At present there are no ecotoxicological assessments.

**Results of PBT and vPvB Assessment** : PBT: Not applicable.  
vPvB: Not applicable.

**Other Adverse Effects** : No further relevant information available.

## Section 13. Disposal Considerations

<b>Waste Treatment Methods</b>	: Recommendation: Must be specially treated adhering to official regulations.
<b>Uncleaned Packagings</b>	: Recommendation: Disposal must be made according to official regulations.

## Section 14. Transport Information



### UN-Number

**DOT, IMDG, IATA** : UN1133

### UN Proper Shipping Name

**DOT** : Adhesives  
**IMDG, IATA** : Adhesives

## Section 14. Transport Information *cont'd.*

<b>Transport Hazard Class(es) DOT</b>	:		
		Class	3 Flammable liquids
		Label	3
<b>IMDG, IATA</b>	:		
		Class	3 Flammable liquids
		Label	3
<b>Packing Group DOT, ADR, IMDG, IATA</b>	:		II
<b>Environmental Hazards</b>	:		Not applicable.
<b>Special Precautions for User</b>	:		<b>Warning: Flammable liquids</b>
<b>Danger Code (Kemler)</b>	:		33
<b>EMS Number</b>	:		F-E, S-D
<b>Transport in Bulk According to Annex II of MARPOL 73/78 and IBC Code</b>	:		Not applicable.
<b>UN "Model Regulation"</b>	:		UN1133, Adhesives, 3, II

## Section 15. Regulatory Information

### SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR SUBSTANCE/MIXTURE

#### SARA

<b>Section 355 (Extremely Hazardous Substances):</b>	:	50-00-0	formaldehyde
<b>Section 313 (Specific Toxic Chemical Listings):</b>	:	1330-20-7	xylene
		108-88-3	toluene
		100-41-4	ethylbenzene
		50-00-0	formaldehyde

**TSCA (Toxic Substances Control Act)** : All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

#### Proposition 65

<b>Chemicals Known to Cause Cancer</b>	:	100-41-4	ethylbenzene
		50-00-0	formaldehyde

## Section 15. Regulatory Information *cont'd.*

<b>Chemicals Known to Cause Reproductive Toxicity.</b>	:	None of the ingredients listed.		
<b>Chemicals Known to Cause Developmental Toxicity</b>	:	108-88-3	toluene	
<b>(DSL) Canada Domestic Substance List</b>	:	All components of this product are on the DSL or are exempt from DSL requirements.		
<b>New Jersey Right-to-Know List</b>	:	1330-20-7	xylene	
		108-88-3	toluene	
		100-41-4	ethylbenzene	
		50-00-0	formaldehyde	
<b>New Jersey Special Hazardous Substance List</b>	:	1330-20-7	xylene	F3
		108-88-3	toluene	TE, F3
		100-41-4	ethylbenzene	CA, F3
		50-00-0	formaldehyde	CA, CO, MU, F4
<b>Pennsylvania Right-to-Know List</b>	:	1330-20-7	xylene	
		108-88-3	toluene	
		100-41-4	ethylbenzene	
		50-00-0	formaldehyde	
<b>Pennsylvania Special Hazardous Substance List</b>	:	1330-20-7	xylene	E
		108-88-3	toluene	E
		100-41-4	ethylbenzene	E
		50-00-0	formaldehyde	ES

### CARCEROGENITY CATEGORIES

<b>EPA (Environmental Protection Agency)</b>	:	1330-20-7	xylene	I
		108-88-3	toluene	II
		100-41-4	ethylbenzene	D
		50-00-0	formaldehyde	B1
<b>TLV (Threshold Limit Value established by ACGIH)</b>	:	1330-20-7	xylene	A4
		108-88-3	toluene	A4
		100-41-4	ethylbenzene	A3
		50-00-0	formaldehyde	A2
<b>MAK (German Maximum Workplace Concentration)</b>	:	100-41-4	ethylbenzene	3A
		50-00-0	formaldehyde	4
<b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>	:	50-00-0	formaldehyde	

**National Regulations** : Water hazard class: Water hazard class 2 (Self-assessment): hazard for water.  
 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## Section 16. Other Information

**Department Issuing SDS** : Environment protection department.

**Creation Date** : 08/30/2018

**Date of Preparation / Last Revision** : 01/31/2019

**Abbreviations and Acronyms** :

- RID: Règlement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association"
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization"
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (Division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit
- BEL: Biological Exposure Limit
- Flam. Liq. 2: Flammable liquids, Hazard Category 2
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
- Carc.2: Carcinogenicity – Category 2
- Repr. 2: Reproductive toxicity, Hazard Category 2
- STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
- Asp. Tox. 1: Aspiration hazard, Hazard Category 1