


Section 1. Identification

GHS Product Identifier/ Trade Name	: DSB 1516 Lubricant Adhesive
Relevant Identified Uses of the Substance or Mixture	: Adhesive
Supplier	: The D.S. Brown Company 300 East Cherry Street North Baltimore, Ohio 45872 419-257-3561
Information Department	: Environment protection department.
In Case of Emergency	: Chemtrec 1-800-262-8200 International 01-703-741-5500

Section 2. Hazards Identification

Classification of the Substance or Mixture	: GHS02 Flame Flam. Liq. 2 H225 Highly flammable liquid and vapor. GHS08 Health Hazard Rep. 2 H361 Suspected of damaging fertility or the unborn child. STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. GHS07 Skin Irrit. 2 H315 Causes skin irritation. STOT SE 3 H336 May cause drowsiness or dizziness. Eye Irrit. 2B H320 Causes eye irritation.
Label Elements	: GHS Label Elements: the product is classified and labeled according to the Globally Harmonized System (GHS).
Hazard Pictograms	: 
Signal Word	: DANGER
Hazard Statements	: Highly flammable liquid and vapor. Causes skin and eye irritation. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.
Precautionary Statements	: If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.

Section 2. Hazards Identification *cont'd.*

- Precautionary Statements** : Keep away from heat / sparks / open flames / hot surfaces. No smoking.
 Use explosion-proof electrical / ventilating / lighting / equipment.
 Do not breathe dust / fumes / gas / mist / vapors / spray.
 Wear protective gloves / eye protection / face protection.
 Wear protective gloves.
 Ground / bond container and receiving equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Wash thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
- If Swallowed** : **Immediately call a poison center / doctor.**
- If On Skin (or Hair)** : Immediately remove / take off all contaminated clothing. Rinse skin with water / shower.
- If In Eyes** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If Inhaled** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 Call poison center / doctor if you feel unwell.
- If Exposed or Concerned** : Get medical advice / attention.
- If Skin Irritation Occurs** : Get medical advice / attention.
- If Eye Irritation Persists** : Get medical advice / attention.
- Get Medical Advice/ Attention** : If you feel unwell.
Do NOT induce vomiting.
- In Case of Fire** : Use for extinction: CO₂, powder or water spray.
 Take off contaminated clothing and wash it before reuse.
 Store locked up.
 Store in a well-ventilated place. Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.
 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	2.5-10%

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. Drink 1-2 glasses of water but DO NOT induce vomiting. Do not give liquids to a drowsy, convulsing or unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. **Seek medical attention.**
- 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** : CO₂, extinguishing powder or water spray. Fight larger fires with water spray.
- For Safety Reasons Unsuitable Extinguishing Media** : Water

ADVICE FOR FIREFIGHTERS

- 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.

Section 7. Handling and Storage

Precautions for Safe Handling : Avoid prolonged or repeated contact with skin.
Avoid contact with eyes.
Wash thoroughly after handling.
Prevent formation of aerosols.
Open containers in a well-ventilated area and avoid breathing headspace vapors.

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 ³	100 ppm
REL	Short-term value: 655 mg/m ³	150 ppm
	Long-term value: 435 mg/m ³	100 ppm
TLV	Short-term value: 651 mg/m ³	150 ppm
	Long-term value: 434 mg/m ³	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 ³	150 ppm
	Long-term value: 375 mg/m ³	100 ppm
TLV	Long-term value: 75 mg/m ³	20 ppm
	BEI	

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

PEL	Long-term value: 435 mg/m ³	100 ppm
REL	Short-term value: 545 mg/m ³	125 ppm
	Long-term value: 435 mg/m ³	100 ppm
TLV	Long-term value: 87 mg/m ³	20 ppm
	BEI	

Ingredients with Biological Limit Values : Components with limit values that require monitoring at workplace:

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

BEI	1.5 g/g creatinine
	Medium: Urine
	Time: End of shift.
	Parameter: Methylhippuric acids.

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

Ingredients with Biological Limit Values : **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)

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.

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

Exposure Controls *cont'd.* Protection of Hands

:  Protective gloves.

The glove material has to be impermeable and resistant to the product / the substance / the preparation.

Material of Gloves

: Protective gloves.
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 : Fluid

Color : Hazy amber.

Odor : Characteristic

Change in Condition

Melting Point : Undetermined

Boiling Point : 110°C (230°F)

Flash Point : 4°C (39°F)

Ignition Temperature : 500°C (932°F)

Auto Igniting : Product is not self igniting.

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 (22 mg Hg)

Specific Gravity at 20°C (68°F) : 0.94 g/cm³ (7.844 lbs/gal)

Section 9. Physical and Chemical Properties

Solubility In / Miscibility with Water	: Not miscible or difficult to mix.
Solvent Content	
Organic Solvents	: 74.0%
Solids Content	: 26.0%
Other Information	
VOC	: 693 G/L (5.77 lbs/gal)
Weight per Gallon	: 7.80
SCAQMD	: 693 G/L <i>Note: this product does not comply with the SCAQMD Rule 1168 method.</i>

Section 10. Stability and Reactivity

Reactivity

Chemical Stability

Thermal Decomposition / Conditions to Avoid : No decomposition if used according to specifications.

Possibility of Hazardous Reactions : No dangerous reactions.

Conditions to Avoid : Heat, flames, sparks.

Incompatible Materials : Reacts with oxidizing agents.

Hazardous Decomposition Products : Carbon monoxide and carbon dioxide

Section 11. Toxicological Information

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

1330-20-7 xylene

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

108-88-3 toluene

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)

Primary Irritant Effect

On the Skin : Irritant to skin and mucous membranes.

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

Section 11. Toxicological Information *cont'd.*

Sensitization	: No sensitizing effects known.		
Additional Toxicological Information	: The product shows the following dangers according to internally approved calculation methods for preparations: Harmful Irritant		
Carcinogenic Categories			
IARC (International Agency for Research on Cancer)	1330-20-7	xylene	3
	108-88-3	toluene	3
NTP (National Toxicology Program)	: None of the ingredients is listed.		
OSHA-Ca (Occupational Safety & Health Administration)	: None of the ingredients is listed.		



Section 12. Ecological Information

Toxicity			
Aquatic Toxicity	: No further relevant information available.		
Persistence and Degradability	: No further relevant information available.		
Bioaccumulative Potential	: No further relevant information available.		
Mobility in Soil	: 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

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

Section 14. Transport Information

UN-Number			
DOT, ADR, IMDG, IATA	:	UN1133	
UN Proper Shipping Name			
DOT	:	Adhesives	
ADR	:	1133 Adhesives	
IMDG, IATA	:	Adhesives	
Transport Hazard Class(es)			
DOT	:		
		Class	3 Flammable liquids
		Label	3
ADR, IMDG, IATA	:		
		Class	3 Flammable liquids
		Label	3
Packing Group			
DOT, ADR, IMDG, IATA	:	II	
Environmental Hazards	:	Not applicable.	
Special Precautions for User	:	Warning: Flammable liquids	
Danger Code (Kemler)	:	33	
EMS Number	:	F-E, S-D	
Transport in Bulk According to Annex II of MARPOL 73/78 and IBC Code	:	Not applicable.	
UN "Model Regulation"	:	UN1133, Adhesives, 3, II	

Section 15. Regulatory Information

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

SARA

Section 355 (Extremely Hazardous Substances):	:	None of the ingredients is listed.
Section 313 (Specific Toxic Chemical Listings):	:	All ingredients are listed.

Section 15. Regulatory Information *cont'd.*

TSCA (Toxic Substances Control Act)	: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.
Proposition 65	
Chemicals Known to Cause Cancer	: None of the ingredients is listed.
Chemicals Known to Cause Reproductive Toxicity.	: 108-88-3 toluene
(DSL) Canada Domestic Substance List	: All components of this product are on the DSL or are exempt from DSL requirements.

CANCEROGENITY CATEGORIES

EPA (Environmental Protection Agency)	: 1330-20-7 xylene I	
	108-88-3 toluene II	
TLV (Threshold Limit Value Established by ACGIH)	: 1330-20-7 xylene A4	
	108-88-3 toluene A4	
MAK (German Maximum Workplace Concentration)	: None of the ingredients is listed.	
NIOSH-Ca (National Institute for Occupational Safety and Health)	: None of the ingredients is listed.	

NATIONAL REGULATIONS

Water Hazard Class	: Water Hazard Class 2 (Self-assessment): Hazardous for water.
Chemical Safety Assessment	: A Chemical Safety Assessment has not been carried out.

Section 16. Other Information

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, The D.S. Brown Company makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will The D.S. Brown Company or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

- Department Issuing SDS** : Environment protection department.
- Creation Date** : 12/20/2015
- 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"
 - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 - 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
 - Flam. Liq. 2: Flammable liquids, Hazard Category 2
 - Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
 - Eye Irrit 2B: Serious eye damage/eye irritation, Hazard Category 2B
 - Repr. 2: Reproductive toxicity, Hazard Category 2
 - STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
 - STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
 - Asp. Tox. 1: Aspiration hazard, Hazard Category 1