

Section 1. Identification

Trade Name	: DSB 1520 Lubricant Adhesive
Relevant Identified Uses of the Substance or Mixture	: Adhesive
Supplier/Manufacturer	: The D.S. Brown Company 300 East Cherry Street North Baltimore, Ohio 45872 419-257-3561
In Case of Emergency Information Department	: Chemtrec 1-800-262-8200 International 01-703-741-5500 Environmental, Health and Safety Department

Section 2. Hazards Identification

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE



GHS08 Health hazard

Resp. Sens. 1	: H334 May Cause allergy or asthma symptoms or breathing difficulties if inhaled
Muta. 1B	: H340 May cause genetic defects
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
Eye Irrit. 2A	: H319 Causes serious eye irritation
Skin Sens. 1	: H317 May cause an allergic skin reaction
STOT SE 3	: H335 May cause respiratory irritation

LABEL ELEMENTS

GHS Label Elements	: The product is classified and labeled according to the Globally Harmonized System (GHS)
Hazard Pictograms	:   GHS07 GHS08
Signal Word	: Danger

Section 2. Hazards Identification *cont'd.*

Hazard Statements	: Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause genetic defects. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.
Precautionary Statements	: Do not breathe dust/fume/gas/mist/vapors/spray. (In case of inadequate ventilation) wear respiratory protection. Wear protective gloves. Wear eye protection/face protection. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. 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 In Eyes	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label).
If Experiencing Respiratory Symptoms	: Call a POISON CENTER/doctor.
If Inhaled	: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. Wash contaminated clothing before reuse.
If Exposed or Concerned	: Get medical advice/attention.
If Skin Irritation or Rash 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.
If On Skin	: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/international regulations.
Classification System	: NFPA ratings (Scale 0-4) Health = 1 Fire = 0 Reactivity = 0 HMIS-ratings (Scale 0-4) Health = 1 Fire = 0 Physical Hazard = 0

Section 2. Hazards Identification *cont'd.*

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

Hazardous Components	CAS No.	Name	%
	64742-48-9	Naphtha (petroleum), hydrotreated heavy	5-20%
	108-65-6	2-methoxy-1-methylethyl acetate	5-20%
	101-68-8	4,4'-methylenediphenyl diisocyanate	2.5-10%
	26447-40-5	methylenediphenyl diisocyanate	2.5-10%
	9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	≤ 2.5%
	4083-64-1	4-isocyanatosulphonyltoluene	≤ 2.5%
	57-11-4	stearic acid, pure	≤ 2.5%
		polyester polyol	≤ 2.5%

Section 4. First Aid Measures

DESCRIPTION OF FIRST AID MEASURES

After Inhalation : Supply fresh air and to be sure call for a 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.
If skin becomes irritated seek medical attention.

After Eye Contact : Rinse opened eye for 20 minutes under running water. If eye becomes irritated, obtain medical treatment.

After Swallowing : Seek medical treatment.

INFORMATION FOR DOCTOR

Most Important Symptoms 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 Agents : CO₂, extinguishing powder or water spray. Fight larger fires with water spray. Use fire fighting measures that suit the environment.

Special Hazards Arising From the Substance or Mixture : No further relevant information available.

ADVICE FOR FIREFIGHTERS

Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, 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 : Cover spilled material with neutralization solution (see below) and mix. Wait 15 minutes. Collect material in openhead metal containers. Repeat neutralization and cleaning process until surface is decontaminated. Apply drum lid but DO NOT secure. Allow containers to vent for 72 hours to let carbon dioxide escape. 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 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.
Ensure good ventilation/exhaustion at the workplace.
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.

Section 7. Handling and Storage *cont'd.*

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

- Requirements To Be Met By Storerooms and Receptacles** : 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** : Store in cool, dry conditions in well sealed receptacles.
Protect from contamination.
- Specific End User(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 Limited Values That Require Monitoring at the Workplace** : The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

108-65-6 2-methoxy-1-methylethyl acetate

WEEL	Long-term value	50 ppm
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101-68-8 4,4'-methylenediphenyl diisocyanate

PEL	Ceiling limit value	0.2 mg/m ³ , 0.02 ppm
REL	Long-term value	0.05 mg/m ³ , 0.005 ppm
	Ceiling limit value	0.2* mg/m ³ , 0.02* ppm *10-min
TLV	Long-term value	0.051 mg/m ³ , 0.005 ppm

- Additional Information Exposure Controls** : The lists that were valid during the creation were used as basis.
- 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 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.*

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 the 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.

Use full face shield over protective eye wear when there is a risk of a splash.

Body Protection

:

Protective work clothing.

Section 9. Physical and Chemical Properties

Appearance

Form : Liquid

Color : Not determined.

Odor : Characteristic

Odor Threshold : Not determined.

pH-value : Not determined.

Change in Condition

Melting Point : Undetermined

Boiling Point : 124 °C (255 °F)

Flash Point : Not applicable.

Flammability (solid, gaseous) : Not applicable.

Ignition Temperature : 240 °C (464 °F)

Decomposition Temperature : Not determined.

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 : 0.6 Vol %

Upper : 10.8 Vol %

Section 9. Physical and Chemical Properties *cont'd.*

Vapor Pressure at 20°C (68°F)	: 3.4 hPa (3 mm Hg)
Specific Gravity	
Relative Density	: Not determined.
Vapor Density	: Not determined.
Evaporation Rate	: Not determined.
Solubility In / Miscibility with Water	: Not miscible or difficult to mix.
Partition Coefficient (n-octanol / water)	: Not determined.
Viscosity	
Dynamic	: Not determined.
Kinematic	: Not determined.
Solvent Content	
Solids Content	: Not available.
Other Information	: No further relevant information available.

Section 10. Stability and Reactivity

Reactivity	: No further relevant information available.
Chemical Stability	
Thermal Decomposition / Conditions to Avoid	: No decomposition if used according to specifications.
Possibility of Hazardous Reactions	: Contact with moisture, other materials that react with isocyanates, or temperatures above 350 °F, may cause polymerization.
Conditions to Avoid	: Exposure to high temperatures
Incompatible Materials	: Reacts with alkalis (bases) copper and copper alloys, amines, alcohols Reacts with water.
Hazardous Decomposition Products	: Carbon monoxide and carbon dioxide Nitrogen oxides Isocyanate Isocyanic acid

Section 11. Toxicological Information

Acute Toxicity	: LD/LC50 values that are relevant for classification:		
	64742-48-9 Naphtha (petroleum), hydrotreated heavy		
	Oral	LD50	>5000 mg/kg (rat)
	Dermal	LD50	>3000 mg/kg (rabbit)
	101-68-8 4,4'-methylenediphenyl diisocyanate		
	Oral	LD50	2200 mg/kg (mouse)
Primary Irritant Effect			
On the Skin	: Irritant to skin and mucous membranes.		
On the Eye	: Causes serious eye irritation.		
Sensitization	: Inhalation - Sensitization possible through inhalation. Skin Contact - Sensitization possible through skin contact.		
Additional Toxicological Information	: The product shows the following dangers according to internally approved calculation methods for preparations: Harmful Irritant The product can cause inheritable damage.		
Carcinogenic Categories			
IARC (International Agency for Research on Cancer)	101-68-8	4,4'-methylenediphenyl diisocyanate	3
	9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	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.		
Behavior in Environment Systems			
Bioaccumulative Potential	: No further relevant information available.		
Mobility in Soil	: No further relevant information available.		
Additional Ecological Information	: General Notes: Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.		
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, ADN, IMDG
IATA : Not regulated.
- UN Proper Shipping Name**
DOT, ADR, ADN, IMDG
IATA : Not regulated.
- Transport Hazard Class(es)**
DOT, ADR, ADN, IMDG
IATA Class : Not regulated.
- Packaging Group** : Not regulated.
DOT, ADR, IMDG, IATA
- Environment Hazards** : Not applicable.
- Special Precautions For Users** : Not applicable.
- Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code** : Not applicable.
- UN "Model Regulation"** : Not regulated.

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) : 101-68-8 4,4'-methylenediphenyl diisocyanate
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

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. : None of the ingredients is listed.

Section 15. Regulatory Information *cont'd.*

Chemicals Known to Cause Developmental Toxicity.	: None of the ingredients is listed.
(DSL) Canada Domestic Substance List	: All components of this product are on the DSL or are exempt from DSL requirements.
New Jersey Right-to-Know List	: None of the ingredients is listed.
New Jersey Special Hazardous Substance List	: None of the ingredients is listed.
Pennsylvania Right-to-Know List	: None of the ingredients is listed.
Pennsylvania Special Hazardous Substance List	: None of the ingredients is listed.

CANCEROGENITY CATEGORIES

EPA (Environmental Protection Agency)	: 101-68-8 4,4'-methylenediphenyl diisocyanate 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues	D, CBD CBD
TLV (Threshold Limit Value Established by ACGIH)	: None of the ingredients listed.	
MAK (German Maximum Workplace Concentration)	: 101-68-8 4,4'-methylenediphenyl diisocyanate 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues	4 4
NIOSH-Ca (National Institute for Occupational Safety and Health)	: None of the ingredients is listed.	

NATIONAL REGULATIONS

Information About Limited Use	: Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.
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, Royal Adhesives & Sealants 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.

Creation Date : 04/01/2020

Date of Preparation/Last Revision : 04/01/2020

Abbreviations and Acronyms :

- 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
- 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
- BEI: Biological Exposure Limit
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
- Resp. Sens. 1: Respiratory sensitisation – Category 1
- Skin Sens. 1: Skin sensitisation – Category 1
- Muta. 1B: Germ cell mutagenicity – Category 1B
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
- Asp. Tox. 1: Aspiration hazard – Category 1