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*DSB Installation Sheet*

**Section 1. Identification**

**Trade Name** : DSB Pourable Pavement Seals - 800 and 900 SL Silicone  
**Other Means of Identification** : Not available.  
**Identified Uses** : Pavement Joint Sealant  
**Recommended Restrictions** : None known.  
**Supplier/Manufacturer** : The D.S. Brown Company  
300 East Cherry Street  
North Baltimore, Ohio 45872  
**In Case of Emergency** : Chemtrec 1-800-424-9300 International 01-703-741-5500

**Section 2. Hazards Identification**

**Physical Hazards** : Not classified.  
**Health Hazards** : Reproductive toxicity Category 2  
**Environmental Hazards** : Hazardous to the aquatic environment, acute Category 2 hazard  
**OSHA Defined Hazards** : Not classified.  
**Label Elements** :



**Signal Word** : Warning  
**Hazard Statement** : Suspected of damaging fertility or the unborn child. Harmful to aquatic life with long lasting effects.  
**Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/ protective clothing/eye protection/face protection. Avoid release to the environment.  
**Response** : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or if you feel unwell: Get medical advice/attention.  
**Storage** : Store locked up.  
**Disposal** : Dispose of contents/container in accordance with local/regional/national/international regulations. See section 13 of this SDS for disposal instructions.  
**Hazard(s) Not Otherwise Classified (HNOC)** : None known.  
**Supplemental Information** : None

## Section 3. Composition/Information on Ingredients

### Mixtures

Chemical Name	Common Name/Synonyms	CAS Number	%
Polydimethylsiloxane		9016-00-6	15 - 40
Silica		112945-52-5	0 - 5
Toluene		108-88-3	0-2
Other components below reportable levels			40 - 70

**Composition comments** : The full text for all R-phrases is displayed in Section 16 of the SDS.

## Section 4. First Aid Measures

- Inhalation** : If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
- Skin Contact** : IF ON SKIN: Gently wash with plenty of soap and water. If irritation persists get medical attention.
- Eye Contact** : Immediately rinse with water for several minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Continue rinsing. Get medical attention if irritation develops and persists.
- Ingestion** : Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.
- Most Important Symptoms/ Effects, Acute and Delayed** : Not available.
- Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary** : In case of shortness of breath, give oxygen. Keep victim warm. Symptoms may be delayed.
- General Information** : If you feel unwell, seek medical advice (show the label where possible). Keep victim warm. Keep victim under observation. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.

## Section 5. Fire-Fighting Measures

- Suitable Extinguishing Media** : Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).
- Unsuitable Extinguishing Media** : Do not use a solid water stream as it may scatter and spread fire.
- Specific Hazards Arising from the Chemical** : Irritating, corrosive and/or toxic gases or fumes will be released during a fire.
- Special Protective Equipment and Precautions for Fire-Fighters** : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
- Fire-Fighting Equipment/Instructions** : In case of fire and/or explosion do not breathe fumes. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. In the event of fire, cool tanks with water spray. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
- Specific Methods** : In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers.

## Section 6. Accidental Release Measures

- Personal Precautions, Protective Equipment and Emergency Procedures** : Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Methods and Materials for Containment and Cleaning Up** : Stop the flow of material, if this is without risk. Eliminate sources of ignition. Dike far ahead of spill for later disposal. Following product recovery, flush area with water.
- Environmental Precautions** : Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid release to the environment.

## Section 7. Handling and Storage

- Precautions for Safe Handling** : Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes and clothing. Do not ingest. Wash hands after handling and before eating. When using, do not eat, drink or smoke. Avoid contact during pregnancy/while nursing. Avoid release to the environment.
- Conditions for Safe Storage, Including Any Incompatibilities** : Store in a cool and well-ventilated place. Keep away from heat and sources of ignition. Keep out of reach of children. Keep container tightly closed.

## Section 8. Exposure Controls/Personal Protection

### OCCUPATIONAL EXPOSURE LIMITS

#### US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Type	Value
Toluene (CAS 108-88-3)	Ceiling	300 ppm
	TWA	200 ppm

#### US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value
Silica (CAS 112945-52-5)	TWA	0.8 mg/m <sup>3</sup>
		20 mppcf

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Toluene (CAS 108-88-3)	TWA	20 ppm

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Silica (CAS 112945-52-5)	TWA	6 mg/m <sup>3</sup>
Toluene (CAS 108-88-3)	STEL	560 mg/m <sup>3</sup>
		150 ppm
	TWA	375 mg/m <sup>3</sup>
		100 ppm

### BIOLOGICAL LIMIT VALUES

#### ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toulene	Urine	*
	0.02 mg/l	Toulene	Blood	*

\* For sampling details, please see the source document.

**Exposure Guidelines** : **US-California OELs: Skin Designation**  
 Toulene (CAS 108-88-3) Can be absorbed through the skin.  
**US-Minnesota Haz Subs: Skin Designation**  
 Toulene (CAS 108-88-3) Skin designation applies.

**Appropriate Engineering Controls** : Provide adequate ventilation if fumes or vapors are generated.

### INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

**Eye/Face Protection** : Goggles/face shield are recommended.

**Hand Protection** : Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.

**Other** : Wear appropriate chemical resistant clothing.



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

### INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT *cont'd.*

<b>Respiratory Protection</b>	: In the case of respirable dust and/or fumes, use self-contained breathing apparatus. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>Thermal Hazards</b>	: Not available.
<b>General Hygiene Considerations</b>	: When using, do not eat, drink or smoke. Use good industrial hygiene practices in handling this material. Wash hands before breaks and immediately after handling the product.

## Section 9. Physical and Chemical Properties

<b>Appearance</b>	: Paste
<b>Physical State</b>	: Liquid
<b>Form</b>	: Paste
<b>Color</b>	: Grey
<b>Odor</b>	: Slight
<b>Odor Threshold</b>	: Not available.
<b>pH</b>	: Not available.
<b>Melting Point/Freezing Point</b>	: Not available.
<b>Initial Boiling Point and Boiling Range</b>	: < 150 °F (< 65.56 °C)
<b>Flash Point</b>	: > 392.0°F (> 200.0°C)
<b>Evaporation Rate</b>	: Not available.
<b>Flammability (Solid, Gas)</b>	: Not available.
<b>Upper/Lower Flammability or Explosive Limits</b>	
<b>Flammable Limit - Lower (%)</b>	: Not available.
<b>Flammable Limit - Upper (%)</b>	: Not available.
<b>Explosive Limit - Lower (%)</b>	: Not available.
<b>Explosive Limit - Upper (%)</b>	: Not available.
<b>Vapor Pressure</b>	: Not available.
<b>Vapor Density</b>	: Not available.
<b>Relative Density</b>	: Not available.
<b>Solubility(ies)</b>	
<b>Solubility (Water)</b>	: Not available.
<b>Partition Coefficient (n-Octanol/Water)</b>	: Not available.
<b>Auto-Ignition Temperature</b>	: > 700°F (> 371.11°C)
<b>Decomposition Temperature</b>	: Not available.

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

**Viscosity** : Not available.

**Other Information**

**Percent Volatile** : < 5%

**Specific Gravity** : 1-1.5

## Section 10. Stability and Reactivity

**Reactivity** : Not available.

**Chemical Stability** : Material is stable under normal conditions. Stable under normal temperature conditions.

**Possibility of Hazardous Reactions** : Hazardous polymerization does not occur.

**Conditions to Avoid** : Heat, flames and sparks. Avoid high temperatures. Temperatures above 100°C

**Incompatible Materials** : Strong acids, alkalies and oxidizing agents.

**Hazardous Decomposition Products** : Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Toxic gas.

## Section 11. Toxicological Information

### INFORMATION ON LIKELY ROUTES OF EXPOSURE

**Ingestion** : May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

**Inhalation** : Health injuries are not known or expected under normal use.

**Skin Contact** : Causes mild skin irritation.

**Eye Contact** : May be irritating to eyes.

**Symptoms Related to the Physical, Chemical and Toxicological Characteristics** : Not available.

### INFORMATION ON TOXICOLOGICAL EFFECTS

**Acute Toxicity** : Not classified.

Product	Test	Species	Test Results
DSB 800 Silicone Sealant	<b>ACUTE</b>		
	Dermal - LD50	Rabbit	594.9618 ml/kg estimated
	Inhalation - LC50	Mouse	16878.3496 ppm, 24 Hours estimated
	Oral - LD50	Rat	109.7093 g/kg estimated
	Other - LD50	Mouse Rat	2489.5566 mg/kg estimated 56204.9023 mg/kg estimated

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

### INFORMATION ON TOXICOLOGICAL EFFECTS *cont'd.*

Component	Test	Species	Test Results
Silica (CAS 112945-52-5)	<b>ACUTE</b>		
	Oral - LD50	Mouse Rat	> 15000 mg/kg > 22500 mg/kg
Toluene (CAS 108-88-3)	<b>ACUTE</b>		
	Dermal - LD50	Rabbit	12124 mg/kg 14.1 ml/kg
	Inhalation - LC50	Mouse	5320 ppm, 8 Hours 400 ppm, 24 Hours
		Rat	26700 ppm, 1 Hours 12200 ppm, 2 Hours 8000 ppm, 4 Hours
		Rat	2.6 g/kg
	Oral - LD50	Rat	59 mg/kg
Other - LD50	Mouse Rat	1332 mg/kg	

\* Estimates for product may be based on additional component data not shown.

<b>Skin Corrosion/Irritation</b>	: Causes mild skin irritation. Not classified.						
<b>Serious Eye Damage/Eye Irritation</b>	: Not available.						
<b>Respiratory or Skin Sensitization</b>							
<b>Respiratory Sensitization</b>	: Not available.						
<b>Skin Sensitization</b>	: Not available.						
<b>Germ Cell Mutagenicity</b>	: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.						
<b>Carcinogenicity</b>	: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.						
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	<table> <tbody> <tr> <td>Silica (CAS 112945-52-5)</td> <td>3</td> <td>Not classifiable as to carcinogenicity to humans.</td> </tr> <tr> <td>Toluene (CAS 108-88-3)</td> <td>3</td> <td>Not classifiable as to carcinogenicity to humans.</td> </tr> </tbody> </table>	Silica (CAS 112945-52-5)	3	Not classifiable as to carcinogenicity to humans.	Toluene (CAS 108-88-3)	3	Not classifiable as to carcinogenicity to humans.
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Toluene (CAS 108-88-3)	3	Not classifiable as to carcinogenicity to humans.					
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	: Not listed.						
<b>Reproductive Toxicity</b>	: Suspected of damaging fertility or the unborn child.						
<b>Specific Target Organ Toxicity - Single Exposure</b>	: Not available.						
<b>Specific Target Organ Toxicity - Repeated Exposure</b>	: Not available.						
<b>Aspiration Hazard</b>	: Not available.						
<b>Chronic Effects</b>	: Not relevant at normal room temperatures. When heated, harmful vapors may be formed.						

## Section 12. Ecological Information

**Ecotoxicity** : Contains a substance which causes risk of hazardous effects to the environment.

Product/Ingredient Name	Test	Species	Test Results
RoadsaverSilicone NS Sealant	<b>Aquatic</b>		
	Crustacea EC50	Water Flea(Daphnia magna)	5.46 - 9.83 mg/l, 48 hr
	Fish LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	5.5 mg/l, 96 hr
Polydimethylsiloxane (CAS 9016-00-6)	<b>Aquatic</b>		
	Fish LC50	Channel catfish (Ictalurus punctatus)	2.36 - 4.15 mg/l, 96 hours
Toluene (CAS 108-88-3)	<b>Aquatic</b>		
	Crustacea EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
	Fish LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	8.11 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

**Persistence and Degradability** : Not available.

**Bioaccumulative Potential** : Not available.

**Partition Coefficient** : Toluene 2.73 n-Octanol / Water (log Kow)

**Mobility in Soil** : Not available.

**Other Adverse Effects** : Not available.

## Section 13. Disposal Considerations

**Disposal Instructions** : Contract with a disposal operator licensed by the Law on Disposal and Cleaning. Do not dispose of waste into sewer. Do not allow this material to drain into sewers/ water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations.

**Hazardous Waste Code** : Not regulated.

**US RCRA Hazardous Waste U List: Reference** : Toluene (CAS 108-88-3) U220

**Waste from Residues / Unused Products** : Dispose of in accordance with local regulations.

**Contaminated Packaging** : Offer rinsed packaging material to local recycling facilities.



## Section 14. Transport Information

DOT : Not regulated as dangerous goods.  
 IATA : Not regulated as dangerous goods.  
 IMDG : Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

## Section 15. Regulatory Information

### US FEDERAL REGULATIONS

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA 12(b) Export Notification (40 CFR 707, Subpt.d) : Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4) : Toluene (CAS 108-88-3) Listed

US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) : Not listed.

### SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA)

Hazard Categories : Immediate Hazard - No  
 Delayed Hazard - Yes  
 Fire Hazard - No  
 Pressure Hazard - No  
 Reactivity Hazard - No

SARA 302 Extremely Hazardous Substance : Not listed.

SARA 311/312 Hazardous Chemical : No

SARA 313 (TRI Reporting)	Chemical name	CAS number	% by wt.
	Toluene	108-88-3	0 - 2

### OTHER FEDERAL REGULATIONS

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List : Toluene (CAS 108-88-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) : Not regulated.

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

### OTHER FEDERAL REGULATIONS *cont'd.*

**Clean Water Act (CWA)** : Hazardous substance.  
**Section 112(r) (40 CFR 68.130)**

**Safe Drinking Water Act (SDWA)** : Not regulated.

**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2))**  
 Toluene (CAS 108-88-3)

**DEA Essential Chemical Code Number**  
 Toluene (CAS 108-88-3) 6594

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**  
 Toluene (CAS 108-88-3) 35 %WV

**DEA Exempt Chemical Mixtures Code Number**  
 Toluene (CAS 108-88-3) 594

### US STATE REGULATIONS

**WARNING** : This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

**US. Massachusetts RTK Substance List** : Silica (CAS 112945-52-5)  
 Toluene (CAS 108-88-3)

**US. New Jersey Worker and Community RTK Act** : Toluene (CAS 108-88-3) 500 LBS

**US. Pennsylvania RTK - Hazardous Substances** : Silica (CAS 112945-52-5)  
 Toluene (CAS 108-88-3)

**US. Rhode Island RTK** : Toluene (CAS 108-88-3)

**US - California Proposition 65 - CRT: Listed Date/ Developmental Toxin** : Toluene (CAS 108-88-3) Listed: January 1, 1991

**US - California Proposition 65 - CRT: Listed date/Female Reproductive Toxin** : Toluene (CAS 108-88-3) Listed: August 7, 2009

### INTERNATIONAL INVENTORIES

Country(s) or Region	Inventory Name	On Inventory (Yes/No)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

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

### INTERNATIONAL INVENTORIES *cont'd.*

Country(s) or Region	Inventory Name	On Inventory (Yes/No)*
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## Section 16. Other Information

<b>Revision Date</b>	: 10/31/2016
<b>Version Number</b>	: 2
<b>Further Information</b>	: HMIS® is a registered trade and service mark of the NPCA.
<b>References</b>	: ACGIH EPA: AQUIRE database NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents HSDB® - Hazardous Substances Data Bank IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
<b>Disclaimer</b>	: 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 guidance 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.
<b>Revision Information</b>	: Composition / Information on Ingredients: Disclosure Overrides Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Data