

Connect to the DSB Installation Page

- 1) Open QR Code Reader on your cell phone.
- 2) Capture the QR Code image to view the written installation instructions.





[JJP Series Sealing
System Installation Sheet](#)

Section 1. Identification

Trade Name	: DSB High Strength Epoxy - Part A
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

Classification of the Substance or Mixture	: Carc. 2 Eye Irrit. 2A Skin Sens.1 Aquatic Chronic 3	: H351 Suspected of causing cancer. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.
Label Elements	:   GHS07 GHS08	
Signal Word	: Warning	
Hazard-Determining Components of Labeling	: 2,3-epoxypropyl o-tolyl ether titanium dioxide	
Hazard Statements	: Causes serious eye irritation. Suspected of causing cancer.	
Precautionary Statements	: Avoid breathing dust/fume/gas/mist/vapors/spray Wear protective gloves/protective clothing/eye protection/face protection. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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 = 1 Reactivity = 0	
HMIS-Ratings (Scale 0-4)	: Health = 1 Fire = 1 Reactivity = 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 of the substances listed below with nonhazardous additions.

Dangerous Component	CAS No.	Weight %
Diglycidyl ether of bisphenol A homopolymer	25085-99-8	≥10-<90%
2,3-epoxypropyl o-tolyl ether	2210-79-9	≥2.5-<4%
calcium carbonate	471-34-1	≤4%
Hydrophobic silica	67762-90-7	<3.25%
titanium dioxide	13463-67-7	≥0.1-<1.6%

Additional Information : For the wording of the listed risk phrases refer to section 16.

Section 4. First Aid Measures

General Information : Immediately remove any clothing soiled by the product.
 In the event of persistent symptoms receive medical treatment.

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.
 Immediately move exposed person to fresh air. If breathing difficulty persists or develops get prompt medical attention.

After Skin Contact : Immediately wash with water and soap and rinse thoroughly.
 If skin irritation continues, consult a doctor.

After Eye Contact : Rinse opened eye for several minutes under running water. Then consult a doctor.

After Swallowing : **Seek immediate medical advice. Seek medical treatment.**

Most Important Symptoms/ Effects, Acute and Delayed : No further relevant information available.

Indication of Immediate Medical Attention and Special Treatment Needed : No further relevant information available.

Section 5. Fire-Fighting Measures

Suitable Extinguishing Media : CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

Advice for Firefighters Protective Equipment : Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

Section 6. Accidental Release Measures

- Personal Precautions, Protective Equipment and Emergency Procedures** : Wear protective equipment. Keep unprotected persons away.
- Environmental Precautions** : Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.
- Methods and Material for Containment and Clean-Up** : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. 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 on Safe Handling** : Wear appropriate personal protective clothing to prevent eye and skin contact.
Avoid breathing vapors or mists of this product.
Use with adequate ventilation.
Do not take internally.
- Information About Protection Against Explosions and Fires** : No special measures required.
- Conditions for Safe Storage, Including Any Incompatibilities Storage** : Cool and dry.
- Requirements to Be Met by Storerooms and Receptacles** : Store in a cool dry location.
- Information About Storage in One Common Storage Facility** : Store away from incompatible materials.
- 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 the Workplace: : The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

471-34-1 calcium carbonate

PEL: Long-term value: 15* 5** mg/m³
*total dust **respirable fraction

REL: Long-term value: 10* 5** mg/m³
*total dust **respirable fraction

TLV: TLV withdrawn

Additional Information: : The lists that were valid during the creation were used as basis.

EXPOSURE CONTROLS

Personal Protective Equipment 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.
Avoid contact with the eyes and skin.

Breathing Equipment: : In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of Hands: :



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

Eye Protection: : Wear appropriate eye protection to prevent eye contact.

Section 9. Physical and Chemical Properties

Appearance

Form	: Liquid
Color	: Clear
Odor	: Mild
Odor Threshold	: Not determined.
pH-Value	: Not determined.
Change in Condition	
Melting Point/Melting Range	: Undetermined
Boiling Point/Boiling Range	: Undetermined
Flash Point	: >93 °C (>199.4 °F)
Flammability (Solid, Gas)	: Not applicable.
Decomposition Temperature	: Not determined.
Auto Igniting	: Product is not self-igniting.
Danger of Explosion	: Product does not present an explosion hazard.
Explosion Limits	
Lower	: Not determined.
Upper	: Not determined.
Vapor Pressure	: Not determined.
Density at 20oC (8oF)	: 1.2 g/cm ³ (10.014 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.
Partition Coefficient (n-Octanol/Water)	: Not determined.
Viscosity	
Dynamic	: 1,000,000 mPas
Kinematic	: Not determined.
Solvent Content	
Solids Content	: 100 %
Other Information	: No further relevant information available.
Volatile Organic Compounds	: Contains less than 10 g/L

Section 10. Stability and Reactivity

Reactivity	: No decomposition if stored and applied as directed.
Chemical Stability	: No decomposition if stored and applied as directed.
Thermal Decomposition / Conditions to be Avoided	: No decomposition if used according to specifications.
Possibility of Hazardous Reactions	: Reacts with acids, alkalis and oxidizing agents.
Conditions to Avoid	: Keep away from heat and sources of ignition.
Incompatible Materials	: No further relevant information available.
Hazardous Decomposition Products	: Carbon monoxide and carbon dioxide

Section 11. Toxicological Information

INFORMATION ON TOXICOLOGICAL EFFECTS

Acute Toxicity

LD/LC50 values that are relevant for classification:

Product	Test	Species	Test Results
25085-99-8 Diglycidyl ether of bisphenol A homopolymer	Oral - LD50 Dermal - LD50	Rat Rabbit	5000 mg/kg 20000 mg/kg

Primary Irritant Effect

On the Skin

: May cause skin irritation.

On the Eye

: Strong irritant with the danger of severe eye injury. Irritating effect.

Sensitization

: Sensitization possible through skin contact.

Additional Toxicological Information

: The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

Carcinogenic Categories

IARC (International Agency for Research on Cancer)

14807-96-6	Talc	3
13463-67-7	titanium dioxide	2B
7631-86-9	silicon dioxide, chemically prepared	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 ENVIRONMENTAL SYSTEMS

Bioaccumulative Potential : No further relevant information available.

Mobility in Soil : No further relevant information available.

ECOTOXICAL EFFECTS

Remark : Harmful to fish

ADDITIONAL ECOLOGICAL INFORMATION

General Notes : Water hazard class 1 (Self-assessment): slightly hazardous for water
Harmful to aquatic organisms

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 not be disposed of as normal garbage. Do not allow product to reach sewage system. It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.

Uncleaned Packaging Recommendation : Disposal must be made according to federal, state, and local regulations.

Section 14. Transport Information

UN-Number

DOT, ADR, ADN, IATA : Not regulated.

IMDG : UN3082

UN Proper Shipping Name

DOT, ADR, ADN, IATA : Not regulated.

IMDG : **Environmentally hazardous** substance, liquid, N.O.S. (Epoxy resin),
Marine pollutant.

Section 14. Transport Information *cont'd.*

Transport Hazard Classes

DOT, ADR, ADN, IATA
Class : Not regulated.

Transport Hazard Classes

DOT, ADR, ADN, IATA
Class : Not regulated.

IMDG



Class : 9 Miscellaneous dangerous substances and articles

Label : 9

Packing Group

DOT, ADR, IMDG, IATA : III

Environmental Hazards

Marine Pollutant : No
Symbol (fish and tree).



Special Precautions for User

EMS Number : F-A, S-F

Stowage Category : A

Transport in Bulk According
to Annex II of MARPOL73/78
and the IBC Code : Not applicable.

Transport/Additional Information

DOT : Not regulated for transport.

ADR : Not regulated for transport.

U.S. Domestic Ground Shipments: Same as listed for Standard Shipments above.

U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments: Same as listed for Standard Shipments above.

Emergency Response Guide (ERG) Number: Not determined.

IMDG : Limited Quantities (LQ): 5L
Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation" : Not regulated.

Section 15. Regulatory Information

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

SARA

**Section 355
(Extremely Hazardous
Substances)** : None of the ingredient is listed.

**Section 313
(Specific Toxic
Chemical Listings)** : This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

None of the ingredients is listed.

TSCA (Toxic Substances Control Act)	:	25085-99-8	Diglycidyl ether of bisphenol A homopolymer	ACTIVE
	:	2210-79-9	2,3-epoxypropyl o-tolyl ether	ACTIVE
	:	471-34-1	calcium carbonate	ACTIVE
	:	67762-90-7	Hydrophobic silica	ACTIVE
	:	14807-96-6	Talc	ACTIVE
	:	13463-67-7	titanium dioxide	ACTIVE
	:	7631-86-9	silicon dioxide, chemically prepared	ACTIVE
	:	21645-51-2	aluminium hydroxide	ACTIVE
:	63148-62-9	Siloxanes and Silicones, di-Me	ACTIVE	

Hazardous Air Pollutants : None of the ingredients are listed.

**Proposition 65
Chemicals Known to the
State of California (Prop. 65)
to Cause Cancer** : 13463-67-7 titanium dioxide

**Chemicals Known to Cause
Reproductive Toxicity for
Females** : None of the ingredients is listed.

**Chemicals Known to Cause
Reproductive Toxicity for
Males** : None of the ingredients is listed.

**Chemicals Known to Cause
Developmental Toxicity:** : None of the ingredients is listed.

CANCEROGENITY CATEGORIES

**EPA (Environmental
Protection Agency)** : None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)	:	14807-96-6	A4
	:	13463-67-7 titanium dioxide	A4

MAK (German Maximum Workplace Concentration)	:	14807-96-6	3B
	:	13463-67-7 titanium dioxide	3A

Section 15. Regulatory Information *cont'd.*

NIOSH-Ca (National Institute for Occupational Safety and Health) : 13463-67-7 titanium dioxide

GHS LABEL ELEMENTS

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard Pictograms :



GHS07 GHS08

Signal Word : Warning

Hazard-Determining Components of Labeling : 2,3-epoxypropyl o-tolyl ether
titanium dioxide

Hazard Statements : Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing cancer.
Harmful to aquatic life with long lasting effects.

Precautionary Statements : Avoid breathing dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/container in accordance with local/regional/national /international regulations.

Chemical Safety Assessment : A Chemical Safety Assessment has not been carried out.

Section 16. Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of Preparation/Last Revision : 4/28/2020

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
- Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
- Skin Sens. 1: Skin sensitisation – Category 1
- Carc. 2: Carcinogenicity, Hazard Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment – long-term aquatic hazard – Category 3