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DSB 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 H351 Suspected of causing cancer.
Eye Irrit. 2A H319 Causes serious eye irritation.

Label Elements :  
GHS07 GHS08

Signal Word : **Warning**

Hazard-Determining Components of Labeling : Talc (Mg3H2(SiO3)4) titanium dioxide
titanium dioxide

Hazard Statements : Causes serious eye irritation.
Suspected of causing cancer.

Precautionary Statements : Wear 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.
IF exposed or concerned: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
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.



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Section 3. Composition/Information on Ingredients

Chemical Characterization : Mixtures
Description : Mixture of the substances listed below with nonhazardous additions.

Dangerous Component	CAS No.	Weight %
calcium carbonate	471-34-1	≤5%
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	14807-96-6	≤5%
titanium dioxide	13463-67-7	≤2.5%
2,3-epoxypropyl o-tolyl ether	2210-79-9	≤1%

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.
 Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After Inhalation : 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 medical treatment.**

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

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

Section 5. Fire-Fighting Measures

Suitable Extinguishing Media : Use fire-fighting measures that suit the environment.

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

- Person-Related Safety Precautions** : Wear protective equipment. Keep unprotected persons away.
- Environmental Precautions** : Do not allow product to reach sewage system or any water course.
- 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

- Information 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** : No special requirements.
- Information About Storage in One Common Storage Facility** : Not required.
- 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 : No further data; see item 7.

CONTROL PARAMETERS

Components with Limit Values that Require Monitoring at the Workplace : 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 : Keep away from foodstuffs, beverages and feed.
General Protective and Hygienic Measures : 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 : Use suitable respiratory protective device when high concentrations are present.
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.

Material of gloves: 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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 : 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	: 260°C (500°F)
Flash Point	: 249°C (480°F)
Flammability (Solid, Gas)	: Not applicable.

Ignition Temperature

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) : 1.202 g/cm³ (10.031 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	: Not determined.
Kinematic	: Not determined.

Solvent Content

Organic Solvents : 0.0 %

Solids Content : 100 %

Other Information : No further relevant information available.

Volatile Organic Compounds : Not determined.

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	: No dangerous reactions known.
Conditions to Avoid	: Keep away from heat and sources of ignition.
Incompatible Materials	: No further relevant information available.
Hazardous Decomposition Products	: No dangerous decomposition products known.

Section 11. Toxicological Information

INFORMATION ON TOXICOLOGICAL EFFECTS

Acute Toxicity

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 caustic effect.

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)		
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	2B
13463-67-7	titanium dioxide	2B

: 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.

Ecotoxicological Effects:

ADDITIONAL ECOLOGICAL INFORMATION

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

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.

Transport Hazard Classes


DOT, ADR, ADN, IATA : Not regulated.

Class

IMDG



Section 14. Transport Information *cont'd.*

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	
ADR	: 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)	: All ingredients are listed.
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Section 15. Regulatory Information cont'd.



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 Talc (Mg ₃ H ₂ (SiO ₃) ₄) A4 13463-67-7 titanium dioxide A4
MAK (German Maximum Workplace Concentration)	: 14807-96-6 Talc (Mg ₃ H ₂ (SiO ₃) ₄) 3B 13463-67-7 titanium dioxide 3A
NIOSH-Ca (National Institute for Occupational Safety and Health)	: 13463-67-7 titanium dioxide 3A

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	:	Talc (Mg ₃ H ₂ (SiO ₃) ₄) titanium dioxide	

Section 15. Regulatory Information *cont'd.*

- Hazard Statements** : Causes eye irritation.
Suspected of causing cancer.
- Precautionary Statements** : Wear 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.
IF exposed or concerned: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
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 : 7/27/2018

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
Carc. 2: Carcinogenicity, Hazard Category 2