

SAFETY DATA SHEET

REV 08/17

Section 1. Identification

PRODUCT IDENTIFIER

Trade Name : V-Epoxy-R - Part A

Relevant identifies uses of

the substance or mixture : Adhesive

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Supplier/Manufacturer : The D.S. Brown Company

300 East Cherry Street North Baltimore, Ohio 45872

419-257-3561

Information Department : Environment protection department.

Emergency Telephone Number: ChemTrec: Day or Night within USA and Canada: 1-800-424-9300

Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

Section 2. Hazard(s) Identification

Classification of the Substance or Mixture



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

Hazard Pictograms

Signal Word

GHS label elements : The product is classified and labeled according to the Globally Harmonized System

(GHS)

GHS07 : Warning

Hazard Statements : Causes skin irritation.

> Causes serious eye reaction. May cause allergic skin reaction. May cause respiratory irritation.

Precautionary Statements : Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear protective gloves/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.

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 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 skin irritation or rash occurs: Get medical advice/attention.

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 = 2 Fire = 1 Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 2 Fire = 1 Physical Hazard = 0

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 : Components listed below

Chemical Name	CAS Number	Wt %
Bisphenol A Epoxy Resin	25068-38-6	50–100%
Kaolin	1332-58-7	5-20%
[[(2-ethylhexyl)oxy]methyl]oxirane	2461-15-6	2.5-10%
titanium dioxide	13463-67-7	≤0.5%

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 : Rinse mouth with water. Do not induce vomiting; immediately call for medical help.



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Section 4. First Aid Measures cont'd.

INFORMATION FOR DOCTOR

Most Important Symptoms and Effects, Both Acute and Delayed

: No further relevant information available.

Medical Attention and Special

Indication of Any Immediate: No further relevant information available.

Treatment Needed

Section 5. Fire-Fighting Measures

EXTINGUISHING MEDIA

Suitable Extinguishing **Agents**

: CO2, extinguishing powder or water spray. Fight larger fires with water spray. Use agents 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**

: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

Environmental Precautions

: Do not allow to enter sewers/surface or ground water.

Methods and Materials 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 disposal information.

Protective Action Criteria for Chemicals:

PAC-1

Chemical Name	CAS Number	Wt	
Bisphenol A Epoxy Resin	25068-38-6	90 mg/m3	
Synthetic Amorphous Silica	67762-90-7	120 mg/m3	



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Section 6. Accidental Release Measures cont'd.

PAC-2

Chemical Name	CAS Number	Wt	
Bisphenol A Epoxy Resin	25068-38-6	990 mg/m3	
Synthetic Amorphous Silica	67762-90-7	1,300 mg/m3	

PAC-3

Chemical Name	CAS Number	Wt	
Bisphenol A Epoxy Resin	25068-38-6	5,900 mg/m3	
Synthetic Amorphous Silica	67762-90-7	7,900 mg/m3	

Section 7. Handling and Storage

HANDLING

Precautions for Safe

Handling

: Open and handle receptacle with care.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information About Protection: No special measures required.

Against Explosions and Fires

STORAGE

Information for Safe Handling

: Storerooms and receptacles: Store in a cool location away from direct heat.

One common storage facility: Keep away from oxidizing agents.

Further information: 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. **Design of Technical Systems**

Components with Limit 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.

13463-67-7	Titanium Dioxide
PEL	Long-term value: 15* mg/m³ (*Total dust)
REL	See Pocket Guide App. A
TLV	Long-term value: 10 mg/m³ withdrawn from NIC
1332-58-7	Kaolin
PEL	Long-term value: 15* 5** mg/m³ (*Total dust **Respirable fraction)
PEL REL	Long-term value: 15* 5** mg/m³ (*Total dust **Respirable fraction) Long-term value: 10* 5** mg/m³ (*Total dust)



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

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

EXPOSURE CONTROLS

Personal Protection Equipment (See list below)

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 : Not necessary if room is well-ventilated.

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

Chloroprene rubber, CR

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.

Body Protection : Protective work clothing.



Section 9. Physical and Chemical Properties

Appearance

Form : Liquid
Color : Khaki

Odor : Characteristic
Odor Threshold : Not determined.
pH Value : Not determined.

Change in Condition

Melting Point : Undetermined
Boiling Point : Undetermined
Flash Point : 94 °C / 201 °F
Flammability (Solid, Gaseous) : Not applicable.
Ignition Temperature : Not determined.
Decomposition Temperature : Not determined.

Auto Ignition : Product is not self-igniting

Danger of Explosion : Product does not present an explosion hazard.



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Section 9. Physical and Chemical Properties cont'd.

Flammable Limits

Lower : Not determined Upper : Not determined **Vapor Pressure** : Not determined

Specific Gravity

at 20 °C (68 °F)

: 1.35 g/cm3 (11.266 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 : Not determined

(n-octonal/water)

Viscosity

: Not determined **Dynamic Kinematic** : Not determined

Solvent Content

Organic Solvents : 0.0%

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 be Avoided** : No decomposition if used according to specifications.

Possibility of Hazardous

Reactions

: No further information is available.

: Exposure to high temperatures. **Conditions to Avoid Incompatible Materials** : Strong oxidizers, acids, and bases.

Hazardous Decomposition

Products

: Carbon Monoxide, Carbon Dioxide, Aldehydes, acids.



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Section 11. Toxicological Information

Acute Toxicity

Primary Irritant Effect : On the skin: Irritant to skin and mucous membranes.

On the eye: Irritating effect.

Sensitization : **Skin contact:** 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	Components
IARC (International Agency for Research on Cancer)	13463-67-7 titanium dioxide 2B
NTP (National Toxicology Program)	None of the ingredients are listed.
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingredients are listed.

Section 12. Ecological Information

Aquatic Toxicity : No further relevant information available. Persistence and Degradability: No further relevant information available.

BEHAVIOR IN ENVIRONMENTAL SYSTEMS

Bioaccumulative Potential Mobility in Soil

: No further relevant information available. : No further relevant information available.

ECOTOXICAL EFFECTS

: Toxic for fish. Remark

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.



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Section 14. Transport Information

UN-Number : **DOT**: Not regulated

IMDG, IATA: UN3082

UN Proper Shipping Name DOT: Not regulated

IMDG: Environmentally hazardous substance, liquid, N.O.S. (Bisphenol A Epoxy

Resin) marine pollutant

IATA: Environmentally hazardous substance, liquid, N.O.S. (Bisphenol A Epoxy

Resin)

Transport Hazard Class(es) : DOT Class: Not regulated

IMDG, IATA Class: 9 Miscellaneous dangerous substances and articles.

Label: 9

Packing Group : **DOT**: Not regulated

IMDG, IATA: III

Environmental Hazards : Marine Pollutant: Yes

> Special Marking (ADR): Special Marking (IATA):

Special Precautions for User : Warning: Miscellaneous dangerous substances and articles

> 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

: Not dangerous according to the above specifications. Epoxy Resin - This product is not considered to be DOT hazardous when transported via any mode within the United States. However, if this product is transported via any mode within the European Community it is considered to be an Environmentally Hazardous

Substance, Liquid Epoxy Resin, UN3082, Class 9

UN "Model Regulation" : UN 3082 Environmentally hazardous substances, liquid, N.O.S. (Bisphenol A Epoxy

Resin), 9, III

Section 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA

Section 355 (extremely hazardous substances) : None of the ingredients are listed.

Section 313 (specific toxic chemical listings)

: None of the ingredients are listed

TSCA (Toxic Substance 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 are listed.



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Section 15. Regulatory Information cont'd.

Chemicals Known to Cause Reproductive Toxicity for

Females

: None of the ingredients are listed.

Chemicals Known to Cause Reproductive Toxicity for

Males

: None of the ingredients are listed.

Chemicals Known to Cause

Developmental Toxicity

: None of the ingredients are listed.

(DSL) Canada Domestic **Substance List**

: All components of this product are on the DSL (Canada Domestic Substance List) are

exempt from the DSL requirements.

New Jersey Right-To-Know

List

: 1317-65-3 Limestone 1332-58-7 Kaolin

13463-67-7 titanium dioxide

New Jersey Special Hazardous: None of the ingredients are listed.

Substance List

Pennsylvania Right-To-Know : 1317-65-3 Limestone

List

1332-58-7 Kaolin

13463-67-7 titanium dioxide

Pennsylvania Special **Hazardous Substance List** : None of the ingredients are listed.

CANCEROGENITY CATEGORIES

EPA (Environmental **Protection Agency**)

: None of the ingredients are listed.

TLV (Threshold Limit Value

Established by ACGIH)

13463-67-7 titanium dioxide : 13463-67-7 titanium dioxide

: 1332-58-7 Kaolin

MAK (German Maximum **Workplace Concentration)**

NIOSH-Ca (National Institute

for Occupational Safety and Health)

: 13463-67-7 titanium dioxide

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.



Section 16. Other Information cont'd.

Department Issuing SDS : Environment protection department.

Creation Date : 01/17/2017 **Date of Preparation/Last** : 08/16/2017

Revision

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangere- uses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: 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)

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

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

Skin Sens. 1: Skin sensitisation - Category 1

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3