01/23/2024	Kit Components			
Product code	Description			
VT932	Vibra-TITE® Epoxy 932 Encapsulating Epoxy			
Components:				
VT932A	Vibra-TITE® Epoxy			
VT932B	Vibra-TITE® Epoxy			





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Safety Data Sheet acc. to OSHA HCS

Printing date 01/23/2024 Reviewed on 01/23/2024

1 Identification

- Product identifier

- Trade name: Vibra-TITE® Epoxy

- Synonyms: 932 Encapsulating Epoxy - Part A

- Part number: VT932A

- Application of the substance / the mixture Adhesives

- Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

ND Industries, Inc 1000 North Crooks Road Clawson, MI 48017 USA

Telephone: +1-248-288-0000 Email: info@ndindustries.com Website: www.ndindustries.com

- Information department: Product Safety Department

- Emergency telephone number:

United States: 1-800-424-9300 International: +1-703-527-3887

2 Hazard(s) identification

- Classification of the substance or mixture



GHS08 Health hazard

Specific Target Organ Toxicity - Repeated Exposure 1 H372 Causes damage to organs through prolonged or repeated exposure.



Skin Irritation 2

Eye Irritation 2A

Sensitization - Skin 1

Specific Target Organ Toxicity - Single Exposure 3

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

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

- Hazard-determining components of labeling:

Bisphenol-A epoxy resin Crystalline Silica

- Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H372 Causes damage to organs through prolonged or repeated exposure.

- Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of the workplace.

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Trade name: Vibra-TITE® Epoxy

P280 Wear protective gloves. (Contd. of page 1)

P280 Wear eye protection / face protection.
P302+P352 If on skin: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P312 Call a poison center/doctor if you feel unwell.
P314 Get medical advice/attention if you feel unwell.
P362+P364 Take off contaminated clothing and wash it before reuse.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P337+P313 If eye irritation persists: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

- Description: Mixture of the substances listed below with nonhazardous additions.

- Dangerous components:		
CAS: 25068-38-6	Bisphenol-A epoxy resin	70 – 79%
	Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	
CAS: 14808-60-7	Crystalline Silica	20 – 29%
	Carcinogenicity 1A, H350; Specific Target Organ Toxicity - Repeated Exposure 1, H372	
CAS: 1317-65-3	Calcium Carbonate	9.45%
	Skin Irritation 2, H315	

4 First-aid measures

- Description of first aid measures

- General information:

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

- 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.

Supply fresh air; consult doctor in case of complaints.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- 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.

5 Fire-fighting measures

- Extinguishing media
 - Suitable extinguishing agents: 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:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective clothing.

- Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

(Contd. of page 2)

Safety Data Sheet acc. to OSHA HCS

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Trade name: Vibra-TITE® Epoxy

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

- Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

- 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.

7 Handling and storage

- Handling:

- Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- Information about protection against explosions and fires: No special measures required.

- Conditions for safe storage, including any incompatibilities

- Storage:
 - 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.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 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.

CAS: 14808-60-7 Crystalline Silica

PEL Long-term value: 0.05* mg/m³

*resp. dust; 30mg/m3/%SiO2+2

REL Long-term value: 0.05* mg/m³

*respirable dust; See Pocket Guide App. A

TLV Long-term value: 0.025* mg/m³ *respirable particulate matter. A2

- 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 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:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- 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.

Nitrile rubber, NBR

- 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.

- As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR
- Body protection: Protective work clothing

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Trade name: Vibra-TITE® Epoxy

(Contd. of page 3)

* 9 Physical and chemical properties

or nysical and chemical properties		
- Information on basic physical and chemical properties - General Information - Appearance:		
- Form:	Like powder	
- Color:	Black	
- Odor:	Characteristic	
- Odor threshold:	Not determined.	
- pH-value:	Not determined.	
- Change in condition - Melting point/Melting range: - Boiling point/Boiling range:	Undetermined. ≥ 260 °C (≥ 500 °F)	
- Flash point:	Not applicable.	
- Flammability (solid, gaseous):	Not applicable.	
- Decomposition temperature:	Not determined.	
- Ignition temperature:	Product is not selfigniting.	
- Danger of explosion:	Product does not present an explosion hazard.	
- Explosion limits: - Lower: - Upper:	Not determined. Not determined.	
- Vapor pressure at 1732 °C (3,149.6	6 °F): ≤ 13.5 hPa (≤ 10.1 mm Hg)	
- Density at 20 °C (68 °F): - Relative density - Vapor density - Evaporation rate	≥ 1.52407 – ≤ 1.60426 g/cm³ (≥ 12.71836 – ≤ 13.38755 lbs/gal) Not determined. Not determined. Not determined.	
- Solubility in / Miscibility with - Water:	Not miscible or difficult to mix.	
- Partition coefficient (n-octanol/water): Not determined.		
- Viscosity: - Dynamic: - Kinematic:	Not determined. Not determined.	
- Solvent content: - VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal	
- Solids content:	29.5 %	
- Other information	No further relevant information available.	

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 dangerous reactions known.
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

*11 Toxicological information

- Information on toxicological effects
 - Acute toxicity:
 - Primary irritant effect:
 - on the skin: Irritant to skin and mucous membranes.
 - on the eye: 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:

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Trade name: Vibra-TITE® Epoxy

(Contd. of page 4)

Irritant

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)	
CAS: 14808-60-7 Crystalline Silica	1
- NTP (National Toxicology Program)	
CAS: 14808-60-7 Crystalline Silica	K
- OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	

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: Toxic for fish
- 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.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
 - Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
 - Recommendation: Disposal must be made according to official regulations.

14 Transport information - UN-Number - DOT, IMDG, IATA UN3082 - UN proper shipping name - DOT Environmentally hazardous substance, liquid, n.o.s. (bisphenol-A-(epichlorhydrin); epoxy resin) - IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol-A-(epichlorhydrin); epoxy resin), MARINE **POLLUTANT** - IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol-A-(epichlorhydrin); epoxy resin) - Transport hazard class(es) - DOT, IMDG, IATA - Class 9 Miscellaneous dangerous substances and articles - Label - Packing group - DOT, IMDG, IATA Ш

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Trade name: Vibra-TITE® Epoxy

(Contd. of page 5)

- Environmental hazards:	Product contains environmentally hazardous substances: bisphenol A-(epichlorhydrin); epoxy resin
- Marine pollutant:	Yes Symbol (fish and tree)
- Special marking (IATA):	Symbol (fish and tree)
- Special precautions for user - Hazard identification number (Kemler code):	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:	
- DOT	
- Quantity limitations	On passenger aircraft/rail: No limit On cargo aircraft only: No limit
- Remarks:	Special marking with the symbol (fish and tree).
- IMDG	
- Limited quantities (LQ)	5L
- Excepted quantities (ÉQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL-A-(EPICHLORHYDRIN); EPOXY RESIN), 9, III

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
 - Sara
- Section 355 (extremely hazardous substances): None of the ingredients is listed. - Section 313 (Specific toxic chemical listings): Colorant - TSCA (Toxic Substances Control Act): All components have the value ACTIVE. - Hazardous Air Pollutants None of the ingredients is listed.
 - Proposition 65
- Chemicals known to cause cancer: CAS: 14808-60-7 | Crystalline Silica Colorant
 - 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.

- Carcinogenic categories
- EPA (Environmental Protection Agency)

None of the ingredients is listed.

- TLV (Threshold Limit Value) CAS: 14808-60-7 | Crystalline Silica

- NIOSH-Ca (National Institute for Occupational Safety and Health)

CAS: 14808-60-7 Crystalline Silica

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A2

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Trade name: Vibra-TITE® Epoxy

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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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.

- Department issuing SDS: ND Industries, Inc. Safety, Health and Environmental Affaires
- Contact: Safety, Health and Environmental Affaires
- Classification System:
 - HMIS-ratings (scale 0 4)



Fire = 0

- NFPA ratings (scale 0 - 4)



Health = 2 Fire = 0Reactivity = 0

- Date of preparation / last revision 01/23/2024
- Abbreviations and acronyms:

ADR: Accord relatif au transport international 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

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) VOC: Volatile Organic Compounds (USA, EU)

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 Irritation 2: Skin corrosion/irritation – Category 2

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A Sensitization - Skin 1: Skin sensitisation – Category 1

Carcinogenicity 1A: Carcinogenicity - Category 1A
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3
Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) - Category 1

* Data compared to the previous version altered.

- Disclaimer

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Safety Data Sheet acc. to OSHA HCS

Printing date 01/23/2024 Reviewed on 01/23/2024

1 Identification

- Product identifier

- Trade name: Vibra-TITE® Epoxy

- Synonyms: 932 Encapsulating Epoxy - Part B

- Part number: VT932B

- Application of the substance / the mixture Adhesives

- Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

ND Industries, Inc 1000 North Crooks Road Clawson, MI 48017 USA

Telephone: +1-248-288-0000 Email: info@ndindustries.com Website: www.ndindustries.com

- Information department: Product Safety Department

- Emergency telephone number:

United States: 1-800-424-9300 International: +1-703-527-3887

2 Hazard(s) identification

- Classification of the substance or mixture



GHS05 Corrosion

Skin Corrosion 1B H314 Causes severe skin burns and eye damage.

Eye Damage 1 H318 Causes serious eye damage.



Sensitization - Skin 1 H317 May cause an allergic skin reaction.

- Label elements

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

Hazard pictograms





GHS05 GHS07

- Signal word Danger

- Hazard-determining components of labeling:

Curing agent

- Hazard statements

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

- Precautionary statements

P260 Do not breathe dusts or mists.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P264 Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace. P272 P280 Wear protective gloves/protective clothing/eye protection/face protection.

P280 Wear protective gloves.

Wear eye protection / face protection. P280

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P302+P352 If on skin: Wash with plenty of water.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

(Contd. of page 1)

Safety Data Sheet

Printing date 01/23/2024 Reviewed on 01/23/2024

Trade name: Vibra-TITE® Epoxy

P310 Immediately call a poison center/doctor.

P321 Specific treatment (see on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

- Description: Mixture of the substances listed below with nonhazardous additions.

- Dangerous components:		
	Curing agent	90 – 100%
	Skin Corrosion 1B, H314; Eye Damage 1, H318; Sensitization - Skin 1, H317	
CAS: 100-51-6	Benzyl alcohol	5 – 9%
	Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Acute Toxicity - Inhalation 4, H332; Eye Irritation 2A, H319	

4 First-aid measures

- Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.
- 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.

Supply fresh air; consult doctor in case of complaints.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- 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.

5 Fire-fighting measures

- Extinguishing media

- Suitable extinguishing agents:

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:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Wear protective clothing.

- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

- Methods and material for containment and cleaning up:

Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

- 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.

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Trade name: Vibra-TITE® Epoxy

(Contd. of page 2)

7 Handling and storage

- Handling:
 - Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
 - Storage:
 - 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.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data: see section 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 remaining constituent has no known exposure limits.

CAS: 100-51-6 Benzyl alcohol

WEEL Long-term value: 10 ppm

- 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 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:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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. Nitrile rubber, NBR

- 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.

- As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR

- Eye protection:



Tightly sealed goggles

- Body protection: Protective work clothing

9 Physical and chemical properties

- Information on basic physical and chemical properties
 - General Information
 - Appearance:

Form: Fluid Color: **Black**

- Odor: Characteristic

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Trade name: Vibra-TITE® Epoxy

(Contd. of page 3)

	(Contd. of pa
- Odor threshold:	Not determined.
- pH-value at 20 °C (68 °F):	5
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. ≥ 205.4 °C (≥ 401.7 °F)
- Flash point:	94 °C (201.2 °F)
- Flammability (solid, gaseous):	Not applicable.
- Auto igniting:	435 °C (815 °F)
- Decomposition temperature:	Not determined.
- Ignition temperature:	Product is not selfigniting.
- Danger of explosion:	Product does not present an explosion hazard.
- Explosion limits: - Lower: - Upper:	Not determined. Not determined.
- Vapor pressure:	Not determined.
- Density at 20 °C (68 °F): - Relative density - Vapor density - Evaporation rate	~ 1.06805 g/cm³ (~ 8.91288 lbs/gal) Not determined. Not determined. Not determined.
- Solubility in / Miscibility with - Water:	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/wa	ter): Not determined.
- Viscosity: - Dynamic: - Kinematic:	Not determined. Not determined.
- Solvent content:	
Organic solvents:VOC content:	6.5 % 6.50 % ~ 69.4 g/l / ~ 0.58 lb/gal
- Solids content:	0.0 %
Other information	No further relevant information available.

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 dangerous reactions known.
- Conditions to avoid No further relevant information available.

2,510 mg/kg (rabbit)

- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects

- Acute toxicity:

LD50

Dermal

	Acut	- Acute toxicity.	
	- LD/LC50 values that are relevant for classification:		
ATE (Acute Toxicity Estimate)		y Estimate)	
	Oral	LD50	18,923 mg/kg (rat)
	Dermal	LD50	30,769 mg/kg (rabbit)
	Inhalative	LC50/4 h	169 mg/l
Curing agent			
	Oral	LD50	4,310 mg/kg (rat)

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Trade name: Vibra-TITE® Epoxy

		(Contd. of page 4
CAS: 100-	-51-6 Benz	zyl alcohol
Oral	LD50	1,230 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)

- Primary irritant effect:

- on the skin: Strong caustic effect on skin and mucous membranes.
- on the eye: Strong caustic effect.
- Sensitization: Sensitization possible through skin contact.

- Additional toxicological information:

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

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)	
None of the ingredients is listed.	
- NTP (National Toxicology Program)	
None of the ingredients is listed.	
- OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	

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.
- 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.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

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.

13 Disposal considerations

- Waste treatment methods
 - Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
 - Recommendation: Disposal must be made according to official regulations.

14 Transport information			
- UN-Number - DOT, IMDG, IATA	UN1719		
- UN proper shipping name - DOT - IMDG, IATA	Caustic alkali liquids, n.o.s. (3,3'-(Oxybis(2,1-ethane-diyloxy)) bis-1-propanamine) CAUSTIC ALKALI LIQUID, N.O.S. (3,3'-(Oxybis(2,1-ethane-diyloxy))bis-1-propanamine)		

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Printing date 01/23/2024 Reviewed on 01/23/2024

Trade name: Vibra-TITE® Epoxy

(Contd. of page 5)

- Transport hazard class(es)

- DOT



- Class 8 Corrosive substances - Label 8

- IMDG, IATA



- Class 8 Corrosive substances

- Label

- Packing group - DOT, IMDG, IATA

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- Environmental hazards:

- Marine pollutant: No

- Special precautions for user Warning: Corrosive substances

Hazard identification number (Kemler code):
 EMS Number:
 Segregation groups
 SGG18) Alkalis

- Stowage Category

- **Segregation Code**SG22 Stow "away from" ammonium salts
SG35 Stow "separated from" SGG1-acids

- Transport in bulk according to Annex II of MARPOL73/78

and the IBC Code Not applicable.

- Transport/Additional information:

- DOT

Quantity limitations
 On passenger aircraft/rail: 1 L
 On cargo aircraft only: 30 L

- IMDG

- Limited quantities (LQ) 1L - Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

- UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (3,3'-(OXYBIS(2,1-

ETHANE-DIYLOXY))BIS-1-

PROPANAMINE), 8, II

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

- Sara

Gara	
- Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
- Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
- TSCA (Toxic Substances Control Act):	
Curing agent	*
Benzyl alcohol	ACTIVE
- Hazardous Air Pollutants	
None of the ingredients is listed.	

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Printing date 01/23/2024 Reviewed on 01/23/2024

Trade name: Vibra-TITE® Epoxy

- Proposition 65

(Contd. of page 6)

Chemicals known to cause cancer:

None of the ingredients is listed.

- 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.

- Carcinogenic categories

- EPA (Environmental Protection Agency)

None of the ingredients is listed.

- TLV (Threshold Limit Value)

None of the ingredients is listed.

- NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

- Department issuing SDS: ND Industries, Inc. Safety, Health and Environmental Affaires
- Contact: Safety, Health and Environmental Affaires
- Classification System:
 - HMIS-ratings (scale 0 4)



*3 Health = *3 Fire = 1

REACTIVITY | Reactivity = 0

- NFPA ratings (scale 0 - 4)



Health = 3Fire = 1 Reactivity = 0

- Date of preparation / last revision 01/23/2024

Abbreviations and acronyms:

ADR: Accord relatif au transport international 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
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)

VOC: Volatile Organic Compounds (USA, EU)

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

Acute Toxicity - Oral 4: Acute toxicity - Category 4
Skin Corrosion 1B: Skin corrosion/irritation - Category 1B
Eye Damage 1: Serious eye damage/eye irritation - Category 1

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A Sensitization - Skin 1: Skin sensitisation – Category 1

* Data compared to the previous version altered.

- Disclaimer

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