01/29/2024 Kit Components	
Product code	Description
VT990 Vibra-TITE® Epoxy 990 Flexible Toughened 2 Part Epoxy - Off-White	
Components:	
VT990A	Vibra-TITE® Epoxy
VT990B	Vibra-TITE® Epoxy





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Safety Data Sheet according to HPR, Schedule 1

Printing date 01/29/2024 Reviewed on 05/09/2023

1 Identification

- Product identifier

- Trade name: Vibra-TITE® Epoxy

- Synonyms: 990 Flexible Toughened 2 Part Epoxy - Off-White - Part A

- Part number: VT990A

- 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 identification

- Classification of the substance or mixture



Skin Irritation - Category 2

Eye Irritation - Category 2A

Skin Sensitizer - Category 1

Specific Target Organ Toxicity - Single Exposure - Category 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



- Signal word Warning

- Hazard-determining components of labeling:

Bisphenol-A epoxy resin

oxirane,2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer

- Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

- Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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

P280 Wear protective gloves.

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.

P362+P364 Take off contaminated clothing and wash it before reuse.

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Trade name: Vibra-TITE® Epoxy

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

3 Composition/Information on ingredients

- Chemical characterization: Mixtures

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

- Dangerous	- Dangerous components:	
	Bisphenol-A epoxy resin Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	60 – 80% w/w
	oxirane,2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317	5 – 10% w/w

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.

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.

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

- Methods and material for containment and cleaning up:

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.

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Trade name: Vibra-TITE® Epoxy

(Contd. of page 2)

- 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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- 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

9 Physical and chemical properties

nformation on basic physical and che - General Information	emical properties	
- General Information - Appearance:		
- Form:	Viscous	
- Color:	Whitish	
- Odor:	Characteristic	
- Odor threshold:	Not determined.	
- pH-value:	Not determined.	
- Change in condition - Melting point/Melting range: - Boiling point/Boiling range:	Undetermined. ≥ 260 °C	
- Flash point:	148 °C	
- 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:	Not determined.	

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Trade name: Vibra-TITE® Epoxy

(Contd. of page 3)

- Upper:	Not determined.
- Vapor pressure:	Not determined.
- Density:	Not determined.
- 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 at 20 °C:	41,000 mPas
- Kinematic:	Not determined.
- Solvent content:	
- VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
- Solids content:	7.5 %
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:

- 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.

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.

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Trade name: Vibra-TITE® Epoxy

Toxic for aquatic organisms

(Contd. of page 4)

- 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.

4 Transport information	
- UN-Number	
- DOT/TDG, ADR, IMDG, IATA	UN3082
- UN proper shipping name	
- DOT/TDG	Environmentally hazardous substance, liquid, n.o.s. (bispheno
	A-(epichlorhydrin); epoxy resin)
- ADR	UN3082 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
IATA	POLLUTANT
- IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol-A-(epichlorhydrin); epoxy resin)
- Transport hazard class(es)	
- DOT/TDG, ADR, IMDG, IATA	
- Class	9 Miscellaneous dangerous substances and articles
- Label	9
- Packing group - DOT/TDG, ADR, IMDG, IATA	III
- Environmental hazards:	Product contains environmentally hazardous substances: bisphen
- Marino pollutant:	A-(epichlorhydrin); epoxy resin Yes
- Marine pollutant:	Symbol (fish and tree)
- Special marking (ADR):	Symbol (fish and tree)
- Special marking (IATA):	Symbol (fish and tree)
- Special precautions for user	Warning: Miscellaneous dangerous substances and articles
- Hazard identification number (Kemler code):	90
- EMS Number:	F-A,S-F
- Stowage Category	A
 Transport in bulk according to Annex II of MARPOL73, and the IBC Code 	//8 Not applicable.
Transport/Additional information:	
- DOT/TDG	
- Quantity limitations	On passenger aircraft/rail: 450 L
- Pomorko	On cargo aircraft only: 450 L
- Remarks:	Special marking with the symbol (fish and tree).
- ADR	0 1 7
- Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 30 ml

(Contd. on page 6)

Printing date 01/29/2024 Reviewed on 05/09/2023

Trade name: Vibra-TITE® Epoxy

(Contd. of page 5)

- IMDG

- Limited quantities (LQ)

- Excepted quantities (EQ)

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

51

Code: E1

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):

None of the ingredients is listed.

- TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

- Canadian substance listings:
 - Canadian Domestic Substances List (DSL)

CAS: 25068-38-6 Bisphenol-A epoxy resin

CAS: 25085-99-8 oxirane,2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer

CAS: 68891-50-9 2-propenoic acid, polymer with 1,3-butadiene and 2-propenenitrile, 3-carboxy-1-cyano-1-methylpropyl-terminated

CAS: 67762-90-7 Amorphous Silica

- Canadian Non-Domestic Substances List (NDSL)

None of the ingredients is listed.

- Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

- Canadian Ingredient Disclosure list (limit 1%)

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)



2 Health = 2 Fire = 1

REACTIVITY | Reactivity = 0

- NFPA ratings (scale 0 - 4)



- Date of the latest revision of the safety data sheet 01/29/2024
- Abbreviations and acronyms:

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

- * Data compared to the previous version altered.

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Trade name: Vibra-TITE® Epoxy

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- Disclaimer

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Safety Data Sheet according to HPR, Schedule 1

Printing date 01/29/2024 Reviewed on 05/08/2023

1 Identification

- Product identifier

- Trade name: Vibra-TITE® Epoxy

- Synonyms: 990 Flexible Toughened 2 Part Epoxy - Off-White - Part B

- Part number: VT990B

- 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 identification

- Classification of the substance or mixture



GHS05 Corrosion

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

Serious Eye Damage - Category 1 H318 Causes serious eye damage.



GHS07

Acute Toxicity (Dermal) – Category 4 H312 Harmful in contact with skin.

Skin Sensitizer - Category 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

Reactive stabilizer

- Hazard statements

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

- Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

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

P280 Wear protective gloves.

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 [or shower].

(Contd. on page 2)

Printing date 01/29/2024 Reviewed on 05/08/2023

Trade name: Vibra-TITE® Epoxy

(Contd. of page 1) 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.

Immediately call a poison center/doctor. P310 P321 Specific treatment (see on this label). P312 Call a poison center/doctor if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.

P322 Specific measures (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.

3 Composition/Information on ingredients

- Chemical characterization: Mixtures

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

- Dangerous components:		
	Curing agent Acute Toxicity (Dermal) – Category 4, H312; Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319	60 – 80% w/w
CAS: 2855-13-2	Curing agent Skin Corrosion - Category 1B, H314; Serious Eye Damage - Category 1, H318; Acute Toxicity (Oral) - Category 4, H302; Skin Sensitizer - Category 1A, H317	10 – 30% w/w
	Curing Agent Skin Corrosion - Category 1B, H314; Skin Sensitizer - Category 1, H317	3 – 7% w/w
CAS: 112-57-2	Reactive stabilizer Skin Corrosion - Category 1B, H314; Acute Toxicity (Dermal) – Category 4, H312; Skin Sensitizer - Category 1, H317	1 – 5% w/w

4 First-aid measures

- Description of first aid measures

- General information:

Immediately remove any clothing soiled by the product.

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. 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: 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

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Wear protective clothing.

- Environmental precautions:

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

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.

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Trade name: Vibra-TITE® Epoxy

(Contd. of page 2)

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:

At this time, the other constituents have no known exposure limits.

CAS: 112-57-2 Reactive stabilizer

WEEL (USA) TWA: 5 mg/m³ Skin; DSEN

- 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

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Trade name: Vibra-TITE® Epoxy

(Contd. of page 3)

9 Physical and chemical properties

,		
- Information on basic physical and chemical properties - General Information - Appearance:		
- Form:	Liquid	
- Color:	•	
	Whitish	
- Odor:	Characteristic	
- Odor threshold:	Not determined.	
- pH-value:	Not determined.	
- Change in condition - Melting point/Melting range: - Boiling point/Boiling range:	Undetermined. ≥ 237 °C	
- Flash point:	100 °C	
- Flammability (solid, gaseous):	Not applicable.	
- Auto igniting:	260 °C	
- Decomposition temperature:	Not determined.	
- Ignition temperature:	Product is not selfigniting.	
- Danger of explosion:	Product does not present an explosion hazard.	
- Explosion limits:		
- Lower:	Not determined.	
- Upper:	Not determined.	
- Vapor pressure:	Not determined.	
- Density at 20 °C:	~ 0.95766 g/cm³	
- 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/wa	ater): Not determined.	
- Viscosity:		
- Dynamic at 20 °C:	2,000 mPas	
- Kinematic:	Not determined.	
- Solvent content:		
- VOC content:	0.00 %	
	0.0 g/l / 0.00 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.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
 - Acute toxicity:

- LD/LC50 values that are relevant for classification:	
ATE (Ad	cute Toxicity Estimate)
Oral	LD50 7,630 mg/kg
Dermal	LD50 > 1,337 mg/kg

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Trade name: Vibra-TITE® Epoxy

(Contd. of page 4)

Curing a	agent	
Dermal	LD50	1,100 mg/kg (ATE)
CAS: 28	55-13	2 Curing agent
Oral	LD50	1,030 mg/kg (ATE)
Curing	Agent	
Oral	LD50	3,160 mg/kg (rat)
Dermal	LD50	2,500 mg/kg (rabbit)
CAS: 11	CAS: 112-57-2 Reactive stabilizer	
Oral	LD50	2,140 mg/kg (rat)
Dermal	LD50	> 660 mg/kg (rabbit)

- Primary irritant effect:
 - on the skin: 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:

Harmful

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.

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

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

Harmful to 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/TDG, ADR, IMDG, IATA

UN3266

Printing date 01/29/2024 Reviewed on 05/08/2023

Trade name: Vibra-TITE® Epoxy

(Contd. of page 5)

- UN proper shipping name - DOT/TDG	Corrosive liquid, basic, inorganic, n.o.s. (3,3'-(Oxybis(2,1-
	ethane-diyloxy))bis-1-propanamine, Isophoronediamine)
- ADR	UN3266 Corrosive liquid, basic, inorganic, n.o.s. (3,3'-(Oxybis(2,1-ethane-diyloxy))bis-1-propanamine,
	Isophoronediamine)
- IMDG, IATA	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (3,3'-(Oxybis(2,1-ethane-diyloxy))bis-1-propanamine,
	ISOPHORONEDIAMINE)
- Transport hazard class(es)	
- DOT/TDG (Transport dangerous goods):	
- Class	8 Corrosive substances
- Label	8
- ADR, IMDG, IATA	
<u></u>	
- Class	8 Corrosive substances
- Label	8
- Packing group - DOT/TDG, ADR, IMDG, IATA	II
- Environmental hazards:	
- Marine pollutant:	No
- Special precautions for user	Warning: Corrosive substances
 Hazard identification number (Kemler code): EMS Number: 	80 F-A,S-B
- Segregation groups	(SGG18) Alkalis
- Stowage Category - Stowage Code	B SW2 Clear of living quarters
- Stowage Code - Segregation Code	SW2 Clear of living quarters. 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/TDG - Quantity limitations	On passanger aircraft/rail: 4.1
- Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 30 L
- ADR	
- Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per filler packaging: 50 ml
- IMDG	
- Limited quantities (LQ) - Excepted quantities (EQ)	1L Code: E2
Excepted qualitates (EW)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
- UN "Model Regulation":	UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (3,3'-(OXYBIS(2,1-ETHANE-DIYLOXY))BIS-1-PROPANAMINE,
	ISOPHORONEDIAMINE), 8, II

*15 Regulatory information

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

Printing date 01/29/2024 Reviewed on 05/08/2023

Trade name: Vibra-TITE® Epoxy

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- 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	ACTIVE
Curing Agent	ACTIVE
Reactive stabilizer	ACTIVE

- Canadian substance listings:			
- Can	- Canadian Domestic Substances List (DSL)		
CAS: 2855-13-2	Curing agent		
	Curing Agent		
CAS: 112-57-2	Reactive stabilizer		
- Can	- Canadian Non-Domestic Substances List (NDSL)		
None of the ingre	edients is listed.		
- Can	- Canadian Ingredient Disclosure list (limit 0.1%)		
None of the ingre	None of the ingredients is listed.		
- Canadian Ingredient Disclosure list (limit 1%)			
CAS: 2855-13-2	CAS: 2855-13-2 Curing agent		
CAS: 112-57-2	Reactive stabilizer		

- 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)



1 Fire = 1

- NFPA ratings (scale 0 - 4)



- Date of the latest revision of the safety data sheet 01/29/2024

- Abbreviations and acronyms:

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

- * Data compared to the previous version altered.

Disclaimer

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