01/13/2020	Kit Components
Product code	Description
VT943	Vibra-Tite Epoxy 943 Toughened Medium Viscosity
Components:	
VT943A	Vibra-TITE® Epoxy 943 High Durability Structural Epoxy - Part A
VT943B	Vibra-TITE® Epoxy 943 High Durability Structural Epoxy - Part B





Safety Data Sheet

acc. to OSHA HCS

Printing date 01/13/2020

Reviewed on 12/06/2019

1 Identification

- Product identifier

- Trade name: Vibra-TITE® Epoxy
 - Synonyms: 943 High Durability Structural Epoxy Part A
 - Part number: VT943A
 - 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



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

- 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
- Bisphenol F epoxy resin
- 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/vapors/spray
- P264 Wash face, hands and any exposed skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves.
- 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.
- 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.

Safety Data Sheet acc. to OSHA HCS

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Trade name: Vibra-TITE® Epoxy

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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 regional/	gulations.

- 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	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	60 - 69%
CAS: 9003-36-5 Bisphenol F epoxy resin	Skin Irrit. 2, H315; Skin Sens. 1, H317	30 – 39%
CAS: 67762-90-7 Amorphous Silica	Combustible Dust	1 – 4%

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.

Safety Data Sheet acc. to OSHA HCS

Printing date 01/13/2020

Trade name: Vibra-TITE® Epoxy

(Contd. of page 2)

Reviewed on 12/06/2019

- 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 item 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

- Eye protection:



Tightly sealed goggles

- Body protection: Protective work clothing

9 Physical and chemical properties

- Information on basic physical and che - General Information	mical properties
- Appearance:	
- Form:	Viscous
- Color:	According to product specification
- Odor:	Characteristic
 Odor threshold: 	Not determined.
- pH-value:	Not determined.
- Change in condition - Melting point/Melting range: - Boiling point/Boiling range:	Undetermined. > 200 °C (> 392 °F)
- Flash point:	> 200 °C (> 392 °F)
- Flammability (solid, gaseous):	Not applicable.
- Decomposition temperature:	Not determined.

Trade name: Vibra-TITE® Epoxy

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	(Contd. of pag		
- Auto igniting:	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	~ 1.1859 g/cm³ (~ 9.89634 lbs/gal) Not determined. Not determined. Not determined.		
 Solubility in / Miscibility with Water: 	Not miscible or difficult to mix.		
- Partition coefficient (n-octano	- 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: - Other information	1.5 % No further relevant information available.		
10 Stability and reactivity			
 Possibility of hazardous reactions Conditions to avoid No further relevance Incompatible materials: No further relevance 	onditions to be avoided: No decomposition if used according to specifications. S No dangerous reactions known. ant information available.		
11 Toxicological information			
- Information on toxicological effect - Acute toxicity: - Primary irritant effect: - on the skin: Irritant to skin			

- 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: Irritant

- 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.

Reviewed on 12/06/2019

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Trade name: Vibra-TITE® Epoxy

(Contd. of page 4) - 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. (LIQUID EPOXY RESIN, Bisphenol F epoxy resin) - IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIQUID EPOXY RESIN, Bisphenol F epoxy resin), MARINE POLLUTANT - IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIQUID EPOXY RESIN, Bisphenol F epoxy resin) - Transport hazard class(es) - DOT, IMDG, IATA - Class 9 Miscellaneous dangerous substances and articles - Label 9 - Packing group - DOT, IMDG, IATA Ш - Environmental hazards: Product contains environmentally hazardous substances: LIQUID EPOXY RESIN - Marine pollutant: Yes (DOT)

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 Α - 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).

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Trade name: Vibra-TITE® Epoxy

	(conta: of page
- 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":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
U	LIQUID, N.O.S. (LIQUID EPOXY RESIN, BISPHENOL F EPOXY
	RESIN), 9, III

15 Regulatory information

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

- Sara	
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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):
All components have the value ACTIVE.
- Hazardous Air Pollutants
None of the ingredients is listed.
- Proposition 65
- 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 established by ACGIH)

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)



- NFPA ratings (scale 0 - 4)



- Date of preparation / last revision 01/13/2020 / 3

- 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

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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) 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 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 - * Data compared to the previous version altered.

- Disclaimer

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Safety Data Sheet

acc. to OSHA HCS

Printing dat	e 01/13/2020
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Reviewed on 12/06/2019

1 Identification

- Product identifier

- Trade name: Vibra-TITE® Epoxy
 - Synonyms: 943 High Durability Structural Epoxy Part B
 - Part number: VT943B
 - 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





H360 May damage fertility or the unborn child.

GHS05 Corrosion

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

Eye Dam. 1 H318 Causes serious eye damage.



Skin Sens. 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



- Signal word Danger

- Hazard-determining components of labeling:
- Curing agent

bisphenol A Fatty Acids, C18-unsatd, dimers, polymers with bisphenol A, epichlorohydrin, tall-oil fatty acids, tetraethylenepentamine and TETA Nonylphenol

Mercaptan-terminated polymer 2.2'-iminodiethylamine

- triethylenetetramine
- Epoxy curing agent

- Hazard statements

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H360 May damage fertility or the unborn child.

- Precautionary statements

P201Obtain special instructions before use.P202Do not handle until all safety precautions have been read and understood.

Reviewed on 12/06/2019

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Printing date 01/13/2020

Trade name: Vibra-TITE® Epoxy

	(Contd. of page 1)
P260	Do not breathe dusts or mists.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash face, hands and any exposed skin thoroughly after handling.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eve protection/face protection.
P280	Wear protective gloves.
P280	Wear eye protection / face protection.
P301+P330+P337	I If swallowed: Rinse mouth. Do NOT induce vomiting.
P302+P352	If on skin: Wash with plenty of water.
P303+P361+P353	B 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.
P311	Call a poison center/doctor.
P305+P351+P338	B If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
	Continue rinsing.
P310	Immediately call a poison center/doctor.
P308+P313	IF exposed or concerned: Get medical advice/attention.
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.
r hazards	

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.

	Curing agent	20 – 29%
	Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Sens. 1, H317	
CAS: 106906-26-7	Fatty Acids, C18-unsatd, dimers, polymers with bisphenol A, epichlorohydrin, tall-oil fatty acids, tetraethylenepentamine and TETA	20 – 29%
	Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 72244-98-5	Mercaptan-terminated polymer	10 – 19%
	Skin Sens. 1B, H317	
CAS: 100-51-6	Benzyl alcohol	5 – 9%
	Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Eye Irrit. 2A, H319	
CAS: 84852-15-3	Nonylphenol	5 – 9%
	Repr. 2, H361; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302	
CAS: 111-40-0	2,2'-iminodiethylamine	5 – 9%
	Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	
CAS: 90-72-2	Aminophenol	4.47%
	Skin Corr. 1C, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312	
CAS: 80-05-7	bisphenol A	4.39%
	Repr. 1B, H360; Eye Dam. 1, H318; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 112-24-3	triethylenetetramine	≤ 1%
	Skin Corr. 1B, H314; Acute Tox. 4, H312; Skin Sens. 1, H317	
CAS: 112-57-2	Epoxy curing agent	≤ 1%
	Skin Corr. 1B, H314; Acute Tox. 4, H312; Skin Sens. 1, H317	

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:

Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

Trade name: Vibra-TITE® Epoxy

(Contd. of page 2)

Reviewed on 12/06/2019

- 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, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents: Water
- 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 item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents 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:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- 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 item 7.

- Control parameters

- 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.

CAS:	CAS: 100-51-6 Benzyl alcohol		
WEEL	WEEL Long-term value: 10 ppm		
CAS:	CAS: 111-40-0 2,2'-iminodiethylamine		
REL	Long-term value: 4 mg/m³, 1 ppm Skin		
TLV	Long-term value: 4.2 mg/m³, 1 ppm Skin		

Trade name: Vibra-TITE® Epoxy

Reviewed on 12/06/2019

		(Contd. of page 3)	
CAS	S: 112-24-3 triethylenetetramine		
WE	EL Long-term value: 6 mg/m³, 1 ppm Skin		
CAS	CAS: 112-57-2 Epoxy curing agent		
WE	EL Long-term value: 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:



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: Viscous - Color: According to product specification - Odor: Characteristic - Odor threshold: Not determined. - pH-value: Not determined. - Change in condition - Melting point/Melting range: Undetermined. - Boiling point/Boiling range: ≥ 205.4 °C (≥ 401.7 °F) - Flash point: > 94 °C (> 201.2 °F) - Flammability (solid, gaseous): Not applicable. - Ignition temperature: ≥ 435 °C (≥ 815 °F) - Decomposition temperature: Not determined. - Auto igniting: Product is not selfigniting. - Danger of explosion: Product does not present an explosion hazard. - Explosion limits: - Lower: Not determined (Contd. on page 5)

Trade name: Vibra-TITE® Epoxy

Reviewed on 12/06/2019

		(Contd. of page
- Upper:	Not determined.	
- Vapor pressure:	Not determined.	
- Density at 20 °C (68 °F):	~ 1.06188 g/cm³ (~ 8.86139 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/v	vater): Not determined.	
- Viscosity:		
- Dynamic:	Not determined.	
- Kinematic:	Not determined.	
- Solvent content:		
- Organic solvents:	8.9 %	
- VOC content:	8.90 %	
	~ 94.5 g/l / ~ 0.79 lb/gal	
- Solids content:	5.6 %	
- 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 (Acute Toxicity Estimate)OralLD502.771 mg/kg (rat)DermalLD504.160 mg/kgInhalativeLC50/4 h124 mg/lCuring aguteCuring kg (rat)Cast agute (ration agute (- LI	J/LC30 V	alues that are relevant for classification:
Dermal Inhalative LD50 4,160 mg/kg 124 mg/l Curing agent Curing agent Oral LD50 2,510 mg/kg (rat) Dermal LD50 2,510 mg/kg (rat) CAS: 72244-98-5 Mercaptan-terminated polymer Colority Colority Oral LD50 2,600 mg/kg (rat) Colority CAS: 72244-98-5 Mercaptan-terminated polymer Colority Colority LD50 2,600 mg/kg (rat) CAS: 100-51-6 Benzyl alcohol 1,230 mg/kg (rat) Colority Colority 2,000 mg/kg (rat) Oral LD50 1,230 mg/kg (rat) Colority Colority 1 mg/l (ATE) CAS: 84852-15-3 Norylphenol Oral LD50 1,412 mg/kg (rat) Colority 1,090 mg/kg (rat) Oral LD50 1,080 mg/kg (rat) 1,080 mg/kg (rat) Colority Colority 1,090 mg/kg (rat) CAS: 90-72-2 Amited and figure (fat) 1,090 mg/kg (rat) Colority 1,090 mg/kg (rat) Colority Colority Colority Colority Colority Colority Colority Colority Colority Colority </th <th>ATE (Acu</th> <th>te Toxicity</th> <th>/ Estimate)</th>	ATE (Acu	te Toxicity	/ Estimate)
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Curing agent Curing agent Oral LD50 4,310 mg/kg (rat) Dermal LD50 2,510 mg/kg (rabbit) CAS: 72244-98-5 Mercaptan-terminated polymer Oral LD50 2,600 mg/kg (rat) CAS: 100-51-6 Benzyl alcohol CAS: 100-51-6 Benzyl alcohol Oral LD50 1,230 mg/kg (rat) Dermal LD50 2,000 mg/kg (rabbit) Inhalative LC50/4 h 11 mg/l (ATE) CAS: 84852-15-3 NoryIphenol Oral LD50 1,412 mg/kg (rat) Oral LD50 1,412 mg/kg (rat) CAS: 111-40-0 2,2'-iminodiethylamine Oral LD50 1,908 mg/kg (rat) CAS: 111-40-0 2,2'-iminodiethylamine Oral LD50 1,080 mg/kg (rat) CAS: 11-40-0 2,2'-iminodiethylamine Oral LD50 1,090 mg/kg (rat) CAS: 11-40-0 2,2'-iminodiethylamine Oral LD50 1,200 mg/kg (rat) CAS: 10-90 mg/kg (rat) Dermal LD50 1,200 mg/kg (rat) CAS: 30-72-2 Aminuphenol Oral LD50 2,000 mg/kg (rat) CAS: 80-57-7 bisphenol A	Dermal	LD50	4,160 mg/kg
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Dermal LD50 1,090 mg/kg (rabbit) CAS: 90-72-2 Amirophenol Image: Composition of the state	CAS: 111-	-40-0 2,2'-i	minodiethylamine
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Oral LD50 1,200 mg/kg (rat) Dermal LD50 2,000 mg/kg (rat) CAS: 80-05-7 bisphenol A Oral LD50 3,250 mg/kg (rat)	Dermal	LD50	1,090 mg/kg (rabbit)
Dermal LD50 2,000 mg/kg (rat) CAS: 80-05-7 bisphenol A	CAS: 90-7	2-2 Amino	ophenol
CAS: 80-05-7 bisphenol A Oral LD50 3,250 mg/kg (rat)	Oral	LD50	1,200 mg/kg (rat)
Oral LD50 3,250 mg/kg (rat)	Dermal	LD50	2,000 mg/kg (rat)
	CAS: 80-0	5-7 bisph	enol A
Dermal LD50 3,000 mg/kg (rabbit)	Oral	LD50	3,250 mg/kg (rat)
	Dermal	LD50	3,000 mg/kg (rabbit)

Trade name: Vibra-TITE® Epoxy

Reviewed on 12/06/2019

CA3. 112-	-24-3 trie	ethylenetetramine	
	LD50	2,500 mg/kg (rat)	
	LD50	805 mg/kg (rabbit)	
		boxy curing agent	
	LD50	2,140 mg/kg (rat)	
Dermal	LD50	> 660 mg/kg (rabbit)	
- Pi	rimarv i	irritant effect:	
- Se - Addit The pr Harmfu Corros Irritant Swallo - Ca	- on the ensitiza tional to roduct sh ul sive t bowing will arcinog - IARC	 be skin: Strong caustic effect on skin and mucous membranes. be eye: Strong caustic effect. ation: Sensitization possible through skin contact. oxicological information: hows the following dangers according to internally approved calculation methods for preparations: Il lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stoma genic categories c (International Agency for Research on Cancer) dients is listed. 	ch.
	- NTP ((National Toxicology Program)	
	-	lients is listed.	
	-		
		A-Ca (Occupational Safety & Health Administration)	
None of the	ie ingredi	lients is listed.	
Ecologi	cal info	formation	
- Behavior - Bioac - Mobil	r in env ccumula lity in s	<i>icity:</i> No further relevant information available. <i>d degradability</i> No further relevant information available. <i>vironmental systems:</i> <i>lative potential</i> No further relevant information available. <i>Soil</i> No further relevant information available.	
 Behavior Bioac Bioac Mobil Ecotoxic Remation Genet Water Do not Must n Dange Also per Toxic f Results of PBT: vPvB 	r in env ccumula lity in s cal effect ark: Toxic al ecolor for al note hazard of t allow pr hot reach er to drink of or aquat for aquat of PBT Not appl S: Not appl	d degradability No further relevant information available. vironmental systems: lative potential No further relevant information available. soil No further relevant information available. soil No further relevant information available. soil No further relevant information available. cts: kic for fish logical information: reduct to reach ground water, water course or sewage system, even in small quantities. n bodies of water or drainage ditch undiluted or unneutralized. king water if even extremely small quantities leak into the ground. s for fish and plankton in water bodies. tic organisms 'and vPvB assessment	
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 Behavior Bioac Bioac Mobil Ecotoxic Remainstrain Addition Generic Water Do not Must in Dange Also pr Toxic f Results of PBT: vPvB Other ad Disposa Waste trace Reconstrained Uncleaned Reconstrained Uncleaned Transpose UN-Number 	r in env ccumula lity in s cal effect ark: Toxical ecolor for al ecolor for aquat for aquat	d degradability No further relevant information available. vironmental systems: lative potential No further relevant information available. Soil No further relevant information available. cts: ic for fish logical information: ies: class 3 (Self-assessment): extremely hazardous for water roduct to reach ground water, water course or sewage system, even in small quantities. h bodies of water or drainage ditch undiluted or unneutralized. king water if even extremely small quantities leak into the ground. s for fish and plankton in water bodies. tic organisms 'and vPvB assessment blicable. splicable. effects No further relevant information available. siderations int methods dation: Must not be disposed of together with household garbage. Do not allow product to reach sewage syst kagings: dation: Disposal must be made according to official regulations.	tem.
 Behavior Bioac Bioac Mobil Ecotoxic Remainstrain Addition Generic Water Do not Must in Dange Also pr Toxic f Results of PBT: vPvB Other ad Disposa Waste trace Reconstrained Uncleaned Reconstrained Uncleaned Transpose UN-Number 	r in env ccumula lity in s cal effect ark: Toxic lal ecolor for al ecolor for aquat for	d degradability No further relevant information available. vironmental systems: lative potential No further relevant information available. Soil No further relevant information available. cts: ic for fish logical information: ies: class 3 (Self-assessment): extremely hazardous for water roduct to reach ground water, water course or sewage system, even in small quantities. h bodies of water or drainage ditch undiluted or unneutralized. king water if even extremely small quantities leak into the ground. s for fish and plankton in water bodies. tic organisms 'and vPvB assessment blicable. splicable. effects No further relevant information available. siderations int methods dation: Must not be disposed of together with household garbage. Do not allow product to reach sewage syst kagings: dation: Disposal must be made according to official regulations.	tem.

Trade name: Vibra-TITE® Epoxy

	(Contd. of pag
- IMDG	CORROSIVE LIQUID, N.O.S. (3,3'-(Oxybis(2,1-ethane-diyloxy) bis-1-
	propanamine, DIETHYLENETRIAMINE), MARINE POLLUTAN
- IATA	CORROSIVE LIQUID, N.O.S. (3,3'-(Oxybis(2,1-ethane-diyloxy)
	bis-1- propanamine, DIETHYLENETRIAMINE)
Transport hazard class(es)	
- DOT	
- Class	8 Corrosive substances
- Label	8
- IMDG	
- Class	8 Corrosive substances
- Label	8
- IATA	
E De la companya de	
- Class	8 Corrosive substances
- Label	8
Packing group - DOT, IMDG, IATA	11
Environmental hazards:	
- Marine pollutant:	Yes (DOT) Symbol (fish and tree)
Chaniel pressutions for year	
- Special precautions for user - Hazard identification number (Kemler code):	Warning: Corrosive substances 80
- EMS Number:	F-A,S-B
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
- Remarks:	On cargo aircraft only: 30 L Special marking with the symbol (fish and tree).
- 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 "Model Regulation":	UN 1760 CORROSIVE LIQUID, N.O.S. (3,3'-(OXYBIS(2,1-ETHAN
on model negulation .	DIYLOXY))BIS-1-
	PROPANÂMINE, DIETHYLENETRIAMINE), 8, II,
	ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

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

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

Safety Data Sheet acc. to OSHA HCS

Printing date 01/13/2020

Trade name: Vibra-TITE® Epoxy

		onito. of page 7)
- Secti	on 313 (Specific toxic chemical listings):	
CAS: 84852-15-3	Nonylphenol	
CAS: 80-05-7	bisphenol A	
- TSCA (T	oxic Substances Control Act):	
Curing agent		*
Fatty Acids, C18-u TETA	insatd, dimers, polymers with bisphenol A, epichlorohydrin, tall-oil fatty acids, tetraethylenepentamine and	ACTIVE
Mercaptan-termina	ated polymer	ACTIVE
Benzyl alcohol		ACTIVE
Nonylphenol		ACTIVE
2,2'-iminodiethylar	nine	ACTIVE
Aminophenol		ACTIVE
bisphenol A		ACTIVE
Silicon dioxide, an	norphous	ACTIVE
Bis (dimethylamin	omethyl) phenol	*
triethylenetetramir	ne	ACTIVE
Epoxy curing ager	nt	ACTIVE

- Hazardous Air Pollutants

None of the ingredients is listed.

- Proposition 65

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

CAS: 80-05-7 bisphenol A

- 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 established by ACGIH)

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)



- NFPA ratings (scale 0 - 4)



- Date of preparation / last revision 01/13/2020 / 5

- 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

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Reviewed on 12/06/2019

Trade name: Vibra-TITE® Epoxy

(Contd. of page 8)

Reviewed on 12/06/2019

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 PBT: Persistent, Bioaccumulative and Toxic VPWB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Corr. 1B: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Stepper Lib: Reproductive toxicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

- * Data compared to the previous version altered.

- Disclaimer

The information set forth is based on information that ND Industries, Incorporated believes to be accurate. No warranty, expressed or implied, is intended. The information is provided solely for your information and consideration and ND Industries Inc. assumes no legal responsibility for use or reliance thereon. In the event of a discrepancy between the information on the non-English document and its English counterpart, the English version shall supersede.

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