04/30/2019	Kit Components
Product code	Description
VT927	Vibra-TITE® Epoxy 927 High Performance Epoxy
Components:	
VT927A	Vibra-TITE® Epoxy 927 High Performance Epoxy - Part A
VT927B	Vibra-TITE® Epoxy 927 High Performance Epoxy - Part B





Safety Data Sheet

acc. to OSHA HCS

Printing date 04/30/2019

Reviewed on 04/30/2019

1 Identification

- Product identifier

- Trade name: Vibra-TITE® Epoxy
 - Synonyms: 927 High Performance Epoxy Part A
 - Part number: VT927A
 - 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 pentaerythritol tetraacrylate Acrylic polymer pentaerythritol triacrylate

- hexamethylene diacrylate
- 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.
- Wear eye protection / face protection. P280
- 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.

Safety Data Sheet acc. to OSHA HCS

Printing date 04/30/2019

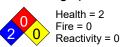
Trade name: Vibra-TITE® Epoxy

(Contd. of page 1)

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			(Conto
	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.	
	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 regulation	3.
- Clá	assification syste	em:	

- NFPA ratings (scale 0 - 4)



- HMIS-ratings (scale 0 - 4)



- Other hazards

Results of PBT and vPvB assessment

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

3 Composition/information on ingredients

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

- Dangerous	components:	
CAS: 25068-38-6	Bisphenol-A epoxy resin	70 – 79%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 9003-36-5	Bisphenol F epoxy resin	10 – 19%
	Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 4986-89-4	pentaerythritol tetraacrylate	1 – 4%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
CAS: 15625-89-5		1 – 4%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
CAS: 3524-68-3	pentaerythritol triacrylate	1 – 4%
	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
CAS: 13048-33-4	hexamethylene diacrylate	1 – 4%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	

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:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 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.

Trade name: Vibra-TITE® Epoxy

Reviewed on 04/30/2019

	ental release measures
	al precautions, protective equipment and emergency procedures adequate ventilation
	otective clothing.
Enviro	nmental precautions:
Inform I	espective authorities in case of seepage into water course or sewage system.
	Illow to enter sewers/ surface or ground water. Is and material for containment and cleaning up:
	adequate ventilation.
Dispose	of the collected material according to regulations.
	nce to other sections
	tion 7 for information on safe handling. tion 8 for information on personal protection equipment.
	tion 13 for disposal information.
Hand	ing and storage
Handl	ng:
	cautions for safe handling
	ure good ventilation/exhaustion at the workplace.
	rent formation of aerosols. Armation about protection against explosions and fires: No special measures required.
	ions for safe storage, including any incompatibilities
	rage: 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.
-	a and a solution about storage conditions. Neep receptacle lightly sealed.
Specif	ic end use(s) No further relevant information available.
Expos Additi	ic end use(s) No further relevant information available. ure controls/personal protection onal information about design of technical systems: No further data; see item 7. I parameters
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Safety Data Sheet acc. to OSHA HCS

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Trade name: Vibra-TITE® Epoxy

Reviewed on 04/30/2019

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- 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 ch - General Information	emical properties
- 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. ≥ 107 °C (≥ 224.6 °F)
- Flash point:	Not applicable.
- Flammability (solid, gaseous):	Not applicable.
- Decomposition temperature:	Not determined.
- 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):	~ 1.18197 g/cm³ (~ 9.86354 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/wa	
- Viscosity:	
- Dynamic at 20 °C (68 °F):	75 000 mPac
- Dynamic at 20 C (00 F). - Kinematic:	75,000 mPas
	Not determined.
 Solvent content: 	
 Organic solvents: 	3.7 %
- VOC content:	3.68 % ~ 43.5 g/l / ~ 0.36 lb/gal
- Solids content:	1.3 %
- Other information	No further relevant information available.
0 Stability and reactivity	

- Reactivity No further relevant information available.

Trade name: Vibra-TITE® Epoxy

Reviewed on 04/30/2019

- 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)

Oral LD50 24,164 mg/kg

Dermal LD50 > 202,977 mg/kg (rab)

CAS: 3524-68-3 pentaerythritol triacrylate

Oral LD50 500 mg/kg (ATE)

CAS: 13048-33-4 hexamethylene diacrylate

Oral LD50 > 5,000 mg/kg (rat)

Dermal LD50 > 3,000 mg/kg (rab)

- 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:

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.
- 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.

(Contd. of page 4)

(Contd. of page 5)

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- Uncleaned packagings:

- Recommendation: Disposal must be made according to official regulations.

UN-Number - DOT, IMDG, IATA	UN3082
	0103002
UN proper shipping name - DOT	Environmentally hazardous substance, liquid, n.o.s. (LIQUID
201	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 - Label	9 Miscellaneous dangerous substances and articles 9
Packing group - DOT, IMDG, IATA	III
Environmental hazards:	Product contains environmentally hazardous substances: LIQUIE EPOXY RESIN
- Marine pollutant:	Yes Symbol (fish and tree)
- Special marking (IATA):	Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances and articles
- Danger code (Kemler):	90
- EMS Number:	F-A,S-F
- Stowage Category	A
Transport in bulk according to Annex II of MA and the IBC Code	ARPOL73/78 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 (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, LIQUID, N.O.S. (LIQUID EPOXY RESIN, BISPHENOL F EPOXY RESIN), 9, III

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

	- Section 355 (extremely hazardous substances):
None	of the ingredients is listed.
	- Section 313 (Specific toxic chemical listings):
None	of the ingredients is listed.

Reviewed on 04/30/2019

<i>Trade name:</i> Vibra-TITE® Epoxy
(Contd. of page 6)
- 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
- Date of preparation / last revision 04/30/2019 / 23
 Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation
IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)
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 Tox. 4: Acute toxicity – Category 4 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.

- * Data compared to the previous version altered.

- Disclaimer

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Safety Data Sheet

acc. to OSHA HCS

Reviewed on 04/30/2019

1 Identification

- Product identifier

- Trade name: Vibra-TITE® Epoxy

- Synonyms: 927 High Performance Epoxy - Part B

- Part number: VT927B

- 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

GHS06 Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



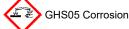
S.

GHS08 Health hazard

- Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT SE 1 H370 Causes damage to organs.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.



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

Eye Dam. 1 H318 Causes serious eye damage.



Skin Sens. 1H317May cause an allergic skin reaction.STOT SE 3H335May 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 Danger
- Hazard-determining components of labeling:
- Curing agent Epikure 3072 Curing Agent Nonylphenol Curing agent

Trade name: Vibra-TITE® Epoxy

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(Contd. of page 1) - Hazard statements H331 Toxic if inhaled. H314 Causes severe skin burns and eye damage. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. H361 Suspected of damaging fertility or the unborn child. H370 Causes damage to organs. H335 May cause respiratory irritation. H372 Causes damage to organs through prolonged or repeated exposure. - Precautionary statements Do not breathe dust/fume/gas/mist/vapors/spray. P260 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. 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/protective clothing/eye protection/face protection. Wear protective gloves. Wear eye protection / face protection. P280 P280 P284 [In case of inadequate ventilation] wear respiratory protection. 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. P304+P341 If inhaled. If breathing is difficult, 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 IF exposed: Call a POISON CENTER or doctor/physician. P307+P311 P308+P313 IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). P321 P333+P313 If skin irritation or rash occurs: Get medical advice/attention. 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.

- Classification system: - NFPA ratings (scale 0 - 4)



- HMIS-ratings (scale 0 - 4)

HEALTH *3	Health = *3
	Fire = 1
REACTIVITY 0	Reactivity = 0

- Other hazards

- Results of PBT and vPvB assessment

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

3 Composition/information on ingredients

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

- Dangerous	components:	
	Epikure 3072	29.8%
	Resp. Sens. 1, H334; Repr. 2, H361; STOT SE 1, H370; STOT RE 1, H372; Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	
	Curing agent	19.82%
	Skin Sens. 1, H317	
	Curing Agent	19.82%
	Skin Corr. 1B, H314; Skin Sens. 1, H317	
	Curing agent	10 – 19%
	Acute Tox. 2, H330; Repr. 2, H361; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 84852-15-3	Nonylphenol	5 – 9%
	Repr. 2, H361; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302	
CAS: 90-72-2	Aminophenol	5 – 9%
	Skin Corr. 1C, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312	1
		and a second second

Trade name: Vibra-TITE® Epoxy

(Contd. of page 2)

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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. Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- After inhalation:

Supply fresh air or oxygen; call for 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.

- 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.

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: Mouth respiratory protective device.

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.

Open and handle receptacle with care.

Prevent formation of aerosols.

- Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

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(Contd. of page 3)

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- 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.
- Store protective clothing separately.
- 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 che	mical 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: 	Undetermined.	
 Boiling point/Boiling range: 	≥ 150 °C (≥ 302 °F)	
- Flash point:	95 °C (203 °F)	
- Flammability (solid, gaseous):	Not applicable.	
		(Contd. on page

(Contd. of page 4)

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Trade name: Vibra-TITE® Epoxy

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	(Contd. of page
- Ignition temperature:	260 °C (500 °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.
- Upper:	Not determined.
- Vapor pressure at 20 °C (68 °F):	≤ 13.3 hPa (≤ 10 mm Hg)
- Density at 20 °C (68 °F):	~ 1.01186 g/cm³ (~ 8.44397 lbs/gal)
- Relative density	Not determined.
- Vapor density	Not determined.
- Evaporation rate	Not determined.
- Solubility in / Miscibility with	
- Water:	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/water): Not determined.	
- Viscosity:	
- Dynamic at 20 °C (68 °F):	15,000 mPas
- Kinematic:	Not determined.
- Solvent content:	
- VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
- Solids content:	2.4 %
- 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:

- LI	D/LC50 v	alues that are relevant for classification:	
ATE (Acute Toxicity Estimate)			
Oral	LD50	3,439 mg/kg (rat)	
Dermal L	LD50	4,412 mg/kg	
Inhalative	LC50/4 h	3.81 mg/l	
Curing Ag	Curing Agent		
Oral	LD50	3,160 mg/kg (rat)	
Dermal	LD50	2,500 mg/kg (rabbit)	
Curing agent			
Oral	LD50	1,080 mg/kg (rat)	
Dermal	LD50	1,090 mg/kg (rabbit)	
Inhalative	halative LC50/4 h 0.5 mg/l (ATE)		
CAS: 84852-15-3 Nonylphenol			
Oral	LD50	1,412 mg/kg (rat)	
CAS: 90-72-2 Aminophenol			
Oral	LD50	1,200 mg/kg (rat)	
Dermal	LD50	2,000 mg/kg (rat)	

Safety Data Sheet acc. to OSHA HCS

Printing date 04/30/2019

Trade name: Vibra-TITE® Epoxy

	(Contd. of page
 Primary irritant effective 	ect:
- on the skin: Stro	ong caustic effect on skin and mucous membranes.
- on the eye: Stro	
- Sensitization:	-
Sensitization possible	through inhalation.
Sensitization possible	through skin contact.
- Additional toxicologic	al information:
	owing dangers according to internally approved calculation methods for preparations:
Harmful	
Corrosive	
Irritant	
Very toxic	
Swallowing will lead to a st	trong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
- Carcinogenic cate	gories
- IARC (Internatio	onal Agency for Research on Cancer)
None of the ingredients is liste	d.
- NTP (National 1	Foxicology Program)
None of the ingredients is liste	d.
- OSHA-Ca (Occi	upational Safety & Health Administration)
None of the ingredients is liste	d.

- 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 3 (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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

Danger to drinking water if even extremely 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	UN3266
- UN proper shipping name	
-DOT	Corrosive liquid, basic, inorganic, n.o.s. (3,3'-(Oxybis(2,1- ethane-diyloxy))bis-1-propanamine, Diethylenetriamine)
- IMDG	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (3,3'- (Oxybis(2,1-ethane-diyloxy))bis-1-propanamine, DIETHYLENETRIAMINE), MARINE POLLUTANT
- IATA	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (3,3'- (Oxybis(2,1-ethane-diyloxy))bis-1-propanamine, DIETHYLENETRIAMINE)

Reviewed on 04/30/2019

Trade name: Vibra-TITE® Epoxy

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Transport hazard class(es)	
- DOT	
E.	
CORROSIVE	
- Class - Label	8 Corrosive substances
	8
- IMDG	
- Class	8 Corrosive substances
- Label	8
- IATA	
À	
a de la companya de	
- Class	8 Corrosive substances
- Label	8
Packing group	
- DOT, IMDG, IATA	II
Environmental hazards:	Product contains environmentally hazardous substances: 4-nony
	branched
- Marine pollutant:	Yes
	Symbol (fish and tree)
Special precautions for user	Warning: Corrosive substances
- Danger code (Kemler): - EMS Number:	88
	F-A,S-B
- Segregation groups - Stowage Category	Alkalis B
- Stowage Code	B SW2 Clear of living quarters.
- Segregation Code	SG35 Stow "separated from" SGG1-acids
Transport in bulk according to Annex II of MARI and the IBC Code	Not applicable.
Transport/Additional information:	
- DOT	
- DOT - Quantity limitations	On passenger aircraft/rail: 0.5 L
Quantity initiations	On cargo aircraft only: 2.5 L
- IMDG	
- Limited quantities (LQ)	0
- Excepted quantities (EQ)	Code: E0
Excepted quantities (EQ)	Not permitted as Excepted Quantity
UN "Model Regulation":	UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (3,
on model negalation .	(OXYBIS(2,1-ETHANE-DIYLOXY))BIS-1-PROPANAMINE, DIETHYLENETRIAMINE), 8, II, ENVIRONMENTALLY HAZARDO

^{*}15 Regulatory information

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

 Section 355 (extremely hazardous substances):
None of the ingredients is listed.
- Section 313 (Specific toxic chemical listings):

Trade name: Vibra-TITE® Epoxy

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TSCA (Taxia Substances Control Act)	(Contd. of page
- TSCA (Toxic Substances Control Act): Epikure 3072	ACTIVE
Curing agent	ACTIVE *
Curing Agent	ACTIVE
Curing Agent	ACTIVE
Nonylphenol	ACTIVE
Aminophenol	ACTIVE
Silicon dioxide, amorphous	ACTIVE
Bis (dimethylaminomethyl) phenol	*
- Hazardous Air Pollutants	
None of the ingredients is listed.	
- Proposition 65	
- Chemicals known to cause cancer:	
None of the ingredients is listed.	
5	
- Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.	
5	
- Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed Chemicals known to cause developmental toxicity:	
- 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.	
Other information	
This information is based on our present knowledge. However, this shall not constitute a guarantee for any spec shall not establish a legally valid contractual relationship.	cific product features and
Department issuing SDS: ND Industries, Inc Safety, Health and Environmental Affaires	
Contact: Safety, Health and Environmental Affaires	
- Date of preparation / last revision 04/30/2019 / 28	
- Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage IMDG: International Maritime Code for Dangerous Goods	e of Dangerous Goods by Road)
DOT: US Department of Transportation	
IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists	

EUNECS: European Inventory of Existing Commercial Chemical Substances ELINECS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) CAS: Chemical Abstracts Service (division of the American Chemical Society NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent D50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic VP48: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 4: Acute toxicity – Category 2 Acute Tox. 3: Acute toxicity – Category 3 Skin Corr. 10: Skin corrosion/irritation – Category 1D Skin Irit. 2: Skin corrosion/irritation – Category 1 Resp. Sens. 1: Skin sensitisation – Category 1 Resp. Sens. 1: Skin sensitisation – Category 1 Repr. 2: Reproductive toxicity – Category 2 STOT SE 1: Specific target organ toxicity (single exposure) – Category 1 STOT SE 1: Specific target organ toxicity (repeated exposure) – Category 1 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Safety Data Sheet acc. to OSHA HCS

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