04/30/2019	Kit Components
Product code	Description
VT916	Vibra-TITE® Epoxy 916 Grey Epoxy
Components:	
VT916A	Vibra-TITE® Epoxy 916 Grey Epoxy - Part A
VT916B	Vibra-TITE® Epoxy 916 Grey 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: 916 Grey Epoxy Part A
 - Part number: VT916A
 - 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

- 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.
- P321 Specific treatment (see on this label).

Reviewed on 04/30/2019

Safety Data Sheet acc. to OSHA HCS

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Trade name: Vibra-TITE® Epoxy

		(Contd. of page 1)
P337+P313	If eye irritation persists: Get medical advice/attention.	
P363	Wash contaminated clothing before reuse.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations	S.
ification quat		

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

Health = 2 Fire = 1 Reactivity = 0

- HMIS-ratings (scale 0 - 4)

 HEALTH
 I

 FIRE
 1

 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:

CAS: 25068-38-6 Bisphenol-A epoxy resin	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	90 – 100%
CAS: 67762-90-7 Amorphous Silica	Combustible Dust	≤ 1%

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.

Wear fully protective suit.

6 Accidental release measures

- Pe	rsonal pi	recau	tions,	protective	equipment	and	emergency procedures	5

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.

Trade name: Vibra-TITE® Epoxy

(Contd. of page 2)

Reviewed on 04/30/2019

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 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:



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 ar - General Information - Appearance:	nd chemical properties	
- Form:	Viscous	
- Color:	Grey	
- Odor:	Characteristic	
- Odor threshold:	Not determined.	
- pH-value:	Not determined.	

Trade name: Vibra-TITE® Epoxy

Reviewed on 04/30/2019

		(Contd. of pa
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. ≥ 260 °C (≥ 500 °F)	
- Flash point:	220 °C (428 °F)	
- 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): - Relative density - Vapor density - Evaporation rate	~ 1.17473 g/cm³ (~ 9.80312 lbs/gal) Not determined. Not determined. Not determined.	
 Solubility in / Miscibility with Water: 	Not miscible or difficult to mix.	
- Partition coefficient (n-octanol/w	ater): 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	1.0 % 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: 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.

(Contd. on page 5)

Trade name: Vibra-TITE® Epoxy

(Contd. of page 4)

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- OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- Toxicity

- Aquatic toxicity: No further relevant information available.

- Persistence and degradability No further relevant information available.

- Behavior in environmental systems:

- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.

- Ecotoxical effects:

- Remark: Toxic for fish

- Additional ecological information:

- General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- Results of PBT and vPvB assessment

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

- Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods

- Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

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

4 Transport information	
- UN-Number	
- DOT, IMDG, IATA	UN3082
- UN proper shipping name	
-DOT	Environmentally hazardous substance, liquid, n.o.s. (LIQUID EPOXY RESIN)
- IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIQUID EPOXY RESIN), MARINE POLLUTANT
- IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIQUID EPOXY RESIN)
- Transport hazard class(es)	
- DOT, IMDG, IATA	
- Class	9 Miscellaneous dangerous substances and articles
- Label	9
- Packing group	
- DOT, IMDĠ, IATA	III
- Environmental hazards:	Product contains environmentally hazardous substances: LIQUID 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

Trade name: Vibra-TITE® Epoxy

Reviewed on 04/30/2019

- Stowage Category	A
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
- DOT	
- Quantity limitations	On passenger aircraft/rail: No limit On cargo aircraft only: No limit
- Remarks:	Special marking with the symbol (fish and tree).
- IMDG	
- Limited quantities (LQ)	5L
- Excepted quantities (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), 9, III
	· ·
Regulatory information	

- 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

- Date of preparation / last revision 04/30/2019 / 14

- 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

Trade name: Vibra-TITE® Epoxy

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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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSH4: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Skin Inrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 1 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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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: 916 Grey Epoxy Part B
 - Part number: VT916B
 - 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

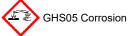
- *Emergency telephone number:* United States: 1-800-424-9300 International: +1-703-527-3887

2 Hazard(s) identification

- Classification of the substance or mixture



Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



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

Eye Dam. 1 H318 Causes serious eye damage.

GHS07

Acute Tox. 4 H302 Harmful if swallowed.

- Acute Tox. 4 H312 Harmful in contact with skin.
- 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:
- Bisphenol A-epichlorohydrin-diethylenetriamine copolymer Curing Agent

Additive

2,2'-iminodiethylamine

- Hazard statements

- H302+H312 Harmful if swallowed or in contact with skin.
- 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.
- Precautionary statements
- P260 Do not breathe dusts or mists. P261 Avoid breathing dust/fume/gas/mist/vapors/spray

Reviewed on 04/30/2019

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/30/2019

Trade name: Vibra-TITE® Epoxy

		(Contd. of page 1)
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/eye protection/face protection.	
P280	Wear protective gloves.	
P280	Wear protective gloves / protective clothing.	
P280	Wear eye protection / face protection.	
P284	[In case of inadequate ventilation] wear respiratory protection.	
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.	
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.	
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.	,
P310	Immediately call a poison center/doctor.	
P321	Specific treatment (see on this label).	
P362+P364	Take off contaminated clothing and wash it before reuse.	
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.	
•		

Classification system:

- NFPA ratings (scale 0 - 4)



- HMIS-ratings (scale 0 - 4)

HEALTHImage: 3FIRE1Fire = 1REACTIVITYReactivity = 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:	
CAS: 31326-29-1	Bisphenol A-epichlorohydrin-diethylenetriamine copolymer Resp. Sens. 1B, H334; Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Eye Irrit. 2A, H319; Skin Sens. 1B, H317	30 – 39%
	Curing Agent Skin Corr. 1B, H314; Skin Sens. 1, H317	30 – 39%
	Additive Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H312; Skin Sens. 1B, H317	10 – 19%
CAS: 111-40-0	2,2'-iminodiethylamine Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	10 – 19%
CAS: 67762-90-7	Amorphous Silica Combustible Dust	1 – 4%

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 04/30/2019

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

CO2, sand, extinguishing powder. Do not use water.

Use fire fighting measures that suit the environment.

- 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: 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 constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

CAS: 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

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

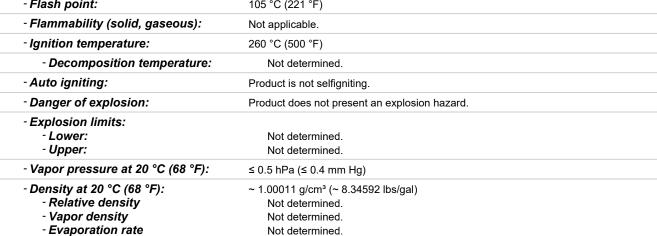
Trade name: Vibra-TITE® Epoxy

Reviewed on 04/30/2019

of quality and varies from of the glove material can

(Contd. of page 3)

	(Contd. of
- Exposure controls	
 Personal protective equipment: 	
 General protective and hygienic n 	
Keep away from foodstuffs, beverages at	
Immediately remove all soiled and contai Wash hands before breaks and at the en	
Avoid contact with the eyes and skin.	
- Breathing equipment:	
	use respiratory filter device. In case of intensive or longer exposure use respiratory
protective device that is independent of c	
 Protection of hands: 	
(III)	
Protective gloves	
The glove material has to be impermeab	e and resistant to the product/ the substance/ the preparation.
5	eration of the penetration times, rates of diffusion and the degradation
- Material of gloves	la se se també de se se ten de se standa de se se ten ten se
	loes not only depend on the material, but also on further marks of quality and varies to product is a preparation of several substances, the resistance of the glove material
	therefore to be checked prior to the application.
Nitrile rubber, NBR	
- Penetration time of glove mate	rial
The exact break through time has to	be found out by the manufacturer of the protective gloves and has to be observed.
	loves made of the following materials are suitable: Nitrile rubber, NBR
- Eye protection:	
tightly sealed goggles	
- Body protection: Protective work clot	hing
9 Physical and chemical properties	•
3 Physical and chemical properties	
- Information on basic physical and chem	ical properties
- General Information	
- Appearance:	
- Form:	Fluid
- Color:	Grey
- Odor:	Characteristic
- Odor threshold:	Not determined.
- pH-value:	Not determined.
- Change in condition	
- Melting point/Melting range:	Undetermined.
- Boiling point/Boiling range:	≥ 207.1 °C (≥ 404.8 °F)
- Flash point:	105 °C (221 °F)
-	
 Flammability (solid, gaseous): 	Not applicable.



Trade name: Vibra-TITE® Epoxy

 Solubility in / Miscibility with Water: 	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/v	<i>vater):</i> Not determined.
- Viscosity:	
- Dynamic:	Not determined.
- Kinematic:	Not determined.
- Solvent content:	
- VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
- Solids content:	3.0 %
Other information	No further relevant information available.
Stability and reactivity	
Possibility of hazardous reactions to Conditions to avoid No further relevan Incompatible materials: No further relevant	t information available.
Toxicological information	
-	
Information on toxicological effects - Acute toxicity:	;
- LD/LC50 values that are relevant	uant for alegation.
ATE (Acute Toxicity Estimate)OralLD50968 mg/kg	
Dermal LD50 1,370 mg/kg	
CAS: 31326-29-1 Bisphenol A-epichlorol	hydrin-diethylenetriamine copolymer
Oral LD50 500 mg/kg (ATE)	
Dermal LD50 1,100 mg/kg (ATE)	
Curing Agent	
Oral LD50 3,160 mg/kg (rat) Dermal LD50 2,500 mg/kg (rabbit)	
Additive	
Oral LD50 2,000 mg/kg (rat)	
Dermal LD50 1,100 mg/kg (ATE)	
CAS: 111-40-0 2,2'-iminodiethylamine	
Oral LD50 1,080 mg/kg (rat)	
Dermal LD50 1,090 mg/kg (rabbit)	
- Primary irritant effect:	
	effect on skin and mucous membranes.
- on the eye: Strong caustic e	
- Sensitization:	
- Sensitization: Sensitization possible through inha	
- Sensitization: Sensitization possible through inha Sensitization possible through skin	contact.
 Sensitization: Sensitization possible through inha Sensitization possible through skin Additional toxicological informa 	n contact. I tion:
 Sensitization: Sensitization possible through inha Sensitization possible through skin Additional toxicological informa 	contact.
 Sensitization: Sensitization possible through inha Sensitization possible through skin Additional toxicological informa The product shows the following dange Harmful Corrosive 	n contact. I tion:
 Sensitization: Sensitization possible through inha Sensitization possible through skin Additional toxicological informa The product shows the following dange Harmful Corrosive Irritant 	n contact. I tion:

- 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.

Trade name: Vibra-TITE® Epoxy

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Reviewed on 04/30/2019

- OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- Toxicity

- Aquatic toxicity: No further relevant information available.

- Persistence and degradability No further relevant information available.

- Behavior in environmental systems:

- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:

- General notes:

Water hazard class 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.

- 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.

Transport information	
- UN-Number - DOT, IMDG, IATA	UN3266
- UN proper shipping name - DOT - IMDG, IATA	Corrosive liquid, basic, inorganic, n.o.s. (3,3'-(Oxybis(2,1- ethane-diyloxy))bis-1-propanamine, TRIETHYLENETETRAMINE, FATTY ACID AMIDOAMINE RESIN) CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (3,3'- (Oxybis(2,1-ethane-diyloxy))bis-1-propanamine, TRIETHYLENETETRAMINE, FATTY ACID AMIDOAMINE RESIN)
- Transport hazard class(es)	
- DOT	
de Tale Conscione	
- Class - Label	8 Corrosive substances 8
- IMDG, IATA	
- Class	8 Corrosive substances
- Label	8
- Packing group - DOT, IMDG, IATA	I
- Environmental hazards: - Marine pollutant:	No
- Special precautions for user - Danger code (Kemler):	Warning: Corrosive substances 88

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	(Contd. of page 6
- EMS Number:	F-A,S-B
 Segregation groups 	Alkalis
- Stowage Category	В
- Stowage Code	SW2 Clear of living quarters.
- Segregation Code	SG35 Stow "separated from" SGG1-acids
- Transport in bulk according to Annex II of MARPOL73/2	78
and the IBC Code	Not applicable.
- Transport/Additional information:	
- DOT	
- Quantity limitations	On passenger aircraft/rail: 0.5 L
	On cargo aircraft only: 2.5 L
- IMDG	
- Limited quantities (LQ)	0
- Excepted quantities (ÉQ)	Code: E0
	Not permitted as Excepted Quantity
- UN "Model Regulation":	UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (3,3'- (OXYBIS(2,1-ETHANE-DIYLOXY))BIS-1-PROPANAMINE, TRIETHYLENETETRAMINE, FATTY ACID AMIDOAMINE RESIN),
	8, I

^{*}15 Regulatory information

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

 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. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Cracinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed. None of the ingredients is listed.<th>- Sara</th><th></th>	- Sara	
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None of the ingradiants is listed	- NIOSH-Ca (Nat	ional Institute for Occupational Safety and Health)
	None of the ingredients is liste	ιd.

- 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 / 10

Trade name: Vibra-TITE® Epoxy

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Reviewed on 04/30/2019

- 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, ÉU) 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 Corr. 1A: Skin corrosion/irritation – Category 1A Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Resp. Sens. 1: Respiratory sensitisation – Category 1 Resp. Sens. 1B: Respiratory sensitisation – Category 1B Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1B - * Data compared to the previous version altered.

- Disclaimer

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