04/30/2019	Kit Components	
Product code	Description	
VT921	Vibra-TITE® Epoxy 921 Plastic Bonder	
Components:		
VT921A	Vibra-TITE® Epoxy 921 Plastic Bonder - Part A	
VT921B	Vibra-TITE® Epoxy 921 Plastic Bonder - Part B	





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1 Identification

- Product identifier

- Trade name: Vibra-TITE® Epoxy

- Synonyms: 921 Plastic Bonder - Part A

- Part number: VT921A

- 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



GHS07

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



GHS07

- Signal word Warning

- Hazard-determining components of labeling:

Bisphenol-A epoxy resin

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

- Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

- Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/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
P332+P313
P333+P313
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.

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P321 Specific treatment (see on this label).

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

Wash contaminated clothing before reuse. P363

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)



Fire = 1 REACTIVITY 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	50 – 59%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 25085-99-8	oxirane,2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer	20 – 29%
	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.

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.

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(Contd. of page 2)

- Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- Handling:

- Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

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

- Conditions for safe storage, including any incompatibilities

- Storage:
 - Requirements to be met by storerooms and receptacles: No special requirements.
 - Information about storage in one common storage facility: Not required.
 - Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see 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 chemical properties
 - General Information
 - Appearance:

- Form: Viscous
- Color: Black
- Odor: Characteristic

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	(
- Odor threshold:	Not determined.
- pH-value:	Not determined.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. ≥ 260 °C (≥ 500 °F)
- Flash point:	148 °C (298.4 °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	~ 1.15823 g/cm³ (~ 9.66543 lbs/gal) Not determined. Not determined. Not determined.
- Solubility in / Miscibility with - Water:	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/wa	ter): Not determined.
- Viscosity: - Dynamic: - Kinematic:	Not determined. Not determined.
- Solvent content: - VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal
- Solids content: - Other information	0.0 % 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.

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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.

14 Transport information

- EMS Number:

- UN-Number	LINGOOD
- DOT, IMDG, IATA	UN3082
- UN proper shipping name	
- DOT	Environmentally hazardous substance, liquid, n.o.s. (LIQUID
	EPOXY RESIN, Bisphenol A Epoxy Resin)
- IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S. (LIQUID EPOXY RESIN, Bisphenol A Epoxy Resin),
IATA	MARINE POLLUTANT
- IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIQUID EPOXY RESIN, Bisphenol A Epoxy Resin)
	14.0.3. (LIQUID EPONT RESIII)
- Transport hazard class(es)	
- DOT, IMDG, IATA	
1 1 1 1 1 1 1 1 1 1	
- 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

F-A,S-F

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- Stowage Category	A	
- Transport in bulk according to Annex II of M.	ARPOL73/78	
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, BISPHENOL A EPOXY RESIN), 9, III	

15 Regulatory information

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

- Section 355 (extremely hazardous	s substances):
None of the ingredients is listed.	
- Section 313 (Specific toxic chemi	ical listings):
Colorant	
- TSCA (Toxic Substances Control Ac	t):
All components have the value ACTIVE.	
- Hazardous Air Pollutants	
None of the ingredients is listed.	
- Proposition 65	

- Proposition 65
 - Chemicals known to cause cancer:

Colorant

- Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

- Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- Carcinogenic categories
 - EPA (Environmental Protection Agency)

None of the ingredients is listed.

- TLV (Threshold Limit Value 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 / 7
 - 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

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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) HMIS: Hazardous Materials Identification System (
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Skin Irrit. 2: Skin corrosion/irritation – Category 2 Skin Sens. 1: Skin sensitisation – 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

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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1 Identification

- Product identifier

- Trade name: Vibra-TITE® Epoxy

- Synonyms: 921 Plastic Bonder - Part B

- Part number: VT921B

- Application of the substance / the mixture Adhesives

- Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

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

USA

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

- Information department: Product Safety Department

- Emergency telephone number:

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

2 Hazard(s) identification

- Classification of the substance or mixture



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS05 Corrosion

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

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

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







GHS05 GHS07 GHS08

- Signal word Danger

- Hazard-determining components of labeling:

Epoxy curing agent Curing Agent Aminophenol Curing agent

Bisphenol-A epoxy resin

- Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

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- Precautionary statements

P201 Obtain special instructions before use.

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

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/eye protection/face protection.

P280 Wear protective gloves.

P280 Wear eye protection / face 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.

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.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see on this label).

P314 Get medical advice/attention if you feel unwell.

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)



- 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:	
	Curing agent	
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
	Curing Agent	20 – 29%
	Skin Corr. 1B, H314; Skin Sens. 1, H317	
	Epoxy curing agent	20 – 29%
	Repr. 2, H361; STOT RE 2, H373; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 25068-38-6	Bisphenol-A epoxy resin	10 – 19%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 90-72-2	Aminophenol	5 – 9%
	Skin Corr. 1C, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312	
CAS: 71074-89-0	Bis (dimethylaminomethyl) phenol	1 – 4%
	Skin Corr. 1B, H314; Eye Dam. 1, H318	

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.

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- 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.

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 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.

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Trade name: Vibra-TITE® Epoxy

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- 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

or myorour and onlonmour proportion	Thyoroxic and onomical proportion		
- Information on basic physical and chemical properties - General Information			
- Appearance:			
- Form:	Fluid		
- Color:	Black		
- 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:	94 °C (201.2 °F)		
- Flammability (solid, gaseous):	Not applicable.		
- 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 21 °C (69.8 °F):	≤ 8 hPa (≤ 6 mm Hg)		
- Density at 20 °C (68 °F):	~ 1.0163 g/cm³ (~ 8.48102 lbs/gal)		
- Relative density	Not determined.		
- Vapor density	Not determined.		
- Evaporation rate	Not determined.		
-			

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Trade name: Vibra-TITE® Epoxy

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 Solubility in / Miscibility wi Water: 	Not miscible or difficult to mix.
- Partition coefficient (n-octa	anol/water): 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:	0.0 %
- Other information	No further relevant information available.

10 Stability and reactivity

- Reactivity No further relevant information available.
 - Chemical stability
 - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects

- Acute toxicity:

	•			
- LI	- LD/LC50 values that are relevant for classification:			
ATE (Acu	ATE (Acute Toxicity Estimate)			
Oral	LD50	> 1,466 mg/kg (rat)		
Dermal	LD50	> 3,610 mg/kg		
Inhalative	LC50/4 h	15,474 mg/l (rat)		
Curing Ag	Curing Agent			
Oral	LD50	3,160 mg/kg (rat)		
Dermal	LD50	2,500 mg/kg (rabbit)		
Epoxy cui	Epoxy curing agent			
Oral	LD50	> 500 mg/kg (rat)		
Dermal	LD50	> 2,000 mg/kg (rabbit)		
Inhalative	LC50/4 h	4,178 mg/l (rat)		
CAS: 90-7	CAS: 90-72-2 Aminophenol			
Oral	LD50	1,200 mg/kg (rat)		
Dermal	LD50	2,000 mg/kg (rat)		

- Primary irritant effect:
 - on the skin: Strong caustic effect on skin and mucous membranes.
 - on the eye: Strong caustic effect.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:

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

Harmful

Corrosive

Irritant

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

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)	
None of the ingredients is listed.	
- NTP (National Toxicology Program)	
None of the ingredients is listed.	
00114 0 (0	

- OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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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: Very 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.

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

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very 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, 2,4,6-tris(dimethylaminomethyl)phenol)
- IMDG - IATA	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (3,3'- (Oxybis(2,1-ethane-diyloxy))bis-1-propanamine, 2,4,6- tris(dimethylaminomethyl)phenol), MARINE POLLUTANT CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (3,3'- (Oxybis(2,1-ethane-diyloxy))bis-1-propanamine, 2,4,6- tris(dimethylaminomethyl)phenol)
- Transport hazard class(es)	ano(annoan) noany (priorior)
- DOT	
(L. 3.) (¥2)	
- Class	8 Corrosive substances
- Label	8
- IMDG	
¥2	
- Class	8 Corrosive substances
- Label	8

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- IATA 8 Corrosive substances - Label - Packing group - DOT, IMDG, IATA - Environmental hazards: Product contains environmentally hazardous substances: Nonyl - Marine pollutant: No Yes (DOT) Symbol (fish and tree) - Special precautions for user Warning: Corrosive substances - Danger code (Kemler): - EMS Number: F-A,S-B - Segregation groups Alkalis - Stowage Category - Stowage Code SW2 Clear of living quarters. - Segregation Code SG35 Stow "separated from" SGG1-acids - Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. - Transport/Additional information: - DOT - Quantity limitations On passenger aircraft/rail: 0.5 L On cargo aircraft only: 2.5 L - Remarks: Special marking with the symbol (fish and tree). - IMDG - Limited quantities (LQ) - Excepted quantities (EQ) 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, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL), 8, I,

15 Regulatory information

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

None of the ingredients is listed. - Section 313 (Specific toxic chemical listings): None of the ingredients is listed. - TSCA (Toxic Substances Control Act): Curing agent Curing Agent ACT	
None of the ingredients is listed. - TSCA (Toxic Substances Control Act): Curing agent ACT	
- TSCA (Toxic Substances Control Act): Curing agent ACT	
Curing agent ACT	
Curing Agent ACT	IVE
	IVE
Epoxy curing agent ACT	IVE
Bisphenol-A epoxy resin ACT	IVE
Aminophenol	IVE
Bis (dimethylaminomethyl) phenol *	
- Hazardous Air Pollutants	
None of the ingredients is listed.	

ENVIRONMENTALLY HAZARDOUS

- Proposition 65

•	
- Ch	hemicals known to cause cancer:
None of the ing	gredients is listed.

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- 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 / 7
 - 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 Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Corr. 1C: Skin corrosion/irritation – Category 1C Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Skin Sens. 1: Skin sensitisation – Category 1

Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

* Data compared to the previous version altered.

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