04/30/2019	Kit Components
Product code	Description
VT924	Vibra-TITE® Epoxy 924 Epoxy - Blue
Components:	
VT924A	Vibra-TITE® Epoxy 924 Epoxy - Blue - Part A
VT924B	Vibra-TITE® Epoxy 924 Epoxy - Blue - 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: 924 Epoxy Blue Part A
- Part number: VT924A
- CAS Number:
- 25068-38-6
- NLP Number:
- 500-033-5
- Index number: 603-074-00-8
- 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 substance 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.

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Trade name: Vibra-TITE® Epoxy

(Contd. of page 1) P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. P312 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. Wash contaminated clothing before reuse. P363 P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

P501

- 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

- Chemical characterization: Substances

- CAS No. Description 25068-38-6 Bisphenol-A epoxy resin - Identification number(s) - NLP Number: 500-033-5

- Index number: 603-074-00-8

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.

Safety Data Sheet acc. to OSHA HCS

Printing date 04/30/2019

Trade name: Vibra-TITE® Epoxy

(Contd. of page 2)

Reviewed on 04/30/2019

- 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: 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 No special measures required.
- 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: Not required. - 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. - 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.

- 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:		
- Form:	Viscous	
- Color:	Not determined.	
- Odor:	Characteristic	
- Odor threshold:	Not determined.	
- pH-value:	Not applicable.	

Trade name: Vibra-TITE® Epoxy

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	(Co	ntd. of pag
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 260 °C (500 °F)	
- Flash point:	251 °C (483.8 °F)	
- Flammability (solid, gaseous):	Product is not flammable.	
- Decomposition temperature:	Not determined.	
- Auto igniting:	Not determined.	
- Danger of explosion:	Product does not present an explosion hazard.	
- Explosion limits:		
- Lower:	Not determined.	
- Upper:	Not determined.	
- Vapor pressure:	Not applicable.	
- Density at 20 °C (68 °F):	1.17 g/cm³ (9.76365 lbs/gal)	
- Relative density	Not determined.	
- Vapor density	Not applicable.	
- Evaporation rate	Not applicable.	
- Solubility in / Miscibility with		
- Water:	Insoluble.	
- Partition coefficient (n-octanol/wa	ater): Not determined.	
- Viscosity:		
- Dynamic:	Not applicable.	
- Kinematic:	Not applicable.	
- VOC content:	0.00 %	
- Solids content:	100.0 %	
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:

- 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:

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)

Substance is not listed.

- NTP (National Toxicology Program)

Substance is not listed.

- OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

- Toxicity

- Aquatic toxicity: No further relevant information available.

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Trade name: Vibra-TITE® Epoxy

<i>Trade name:</i> Vibra-TITE® Epoxy	
	(Contd. of page 4)
- Persistence and degradability No further relevant in	nformation available.
- Behavior in environmental systems: - Bioaccumulative potential No further relevant ir	formation available
- Mobility in soil No further relevant information ava	
- Ecotoxical effects:	
- Remark: Toxic for fish	
 Additional ecological information: 	
- General notes:	
Water hazard class 2 (Assessment by list): hazardou: Do not allow product to reach ground water, water co	
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 toget	her with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings: - Recommendation: Disposal must be made accord	ding to official regulations.
14 Transport information	
- UN-Number	
- DOT	not regulated
- IMDG, IATA	UN3082
- UN proper shipping name	
- DOT	not regulated
- IMDG, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIQUID EPOXY RESIN)
 Transport hazard class(es) 	
- DOT	
- Class	not regulated
- IMDG	
*	
8	
- Class	9 Miscellaneous dangerous substances and articles
- Label	9
- IATA	
- Class	9 Miscellaneous dangerous substances and articles
- Label	9
- Packing group	
- DOT	not regulated
- IMDG, IATA	III
- Environmental hazards:	Product contains environmentally hazardous substances: LIQUID EPOXY RESIN
- Marine pollutant:	No
- Special marking (IATA):	Symbol (fish and tree)
- Special precautions for user - Danger code (Kemler): - EMS Number:	Warning: Miscellaneous dangerous substances and articles 90
	F-A,S-F

Trade name. Vibra-TITE® Epoxy

Reviewed on 04/30/2019

- Stowage Category	А
Transport in bulk according to Annex II of MARP and the IBC Code	Not applicable.
Transport/Additional information:	
- IMDG	
 Limited quantities (LQ) 	5L
 Excepted quantities (EQ) 	Code: E1
	Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIQUID EPOXY RESIN), 9, III
Regulatory information	
Safety, health and environmental regulations/leg	islation specific for the substance or mixture
- Section 355 (extremely hazardous subs	stances):
Substance is not listed.	
- Section 313 (Specific toxic chemical lis	tings):
Substance is not listed.	
- TSCA (Toxic Substances Control Act):	
ACTIVE	
- Hazardous Air Pollutants	
Substance is not listed.	
- Proposition 65	
 Chemicals known to cause cancer: 	
Substance is not listed.	
 Chemicals known to cause reproductiv 	re toxicity for females:
Substance is not listed.	
 Chemicals known to cause reproductiv 	re toxicity for males:
Substance is not listed.	
- Chemicals known to cause development	ntal toxicity:
Substance is not listed.	
- Carcinogenic categories	
- EPA (Environmental Protection Agency	/)
Substance is not listed.	
- TLV (Threshold Limit Value established	1 by ACGIH)
Substance is not listed.	
- NIOSH-Ca (National Institute for Occup	ational Safety and Health)
Substance is not listed.	
Chemical safety assessment: A Chemical Safety Ass	essment has not been carried out.
Other information	
This information is based on our present knowledge. However, shall not establish a legally valid contractual relationship.	ver, this shall not constitute a guarantee for any specific product features and
Department issuing SDS: ND Industries, Inc Safety, Contact: Safety, Health and Environmental Affaires	Health and Environmental Affaires

- 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 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 (Contd. on page

Trade name: Vibra-TITE® Epoxy

OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

- * Data compared to the previous version altered.

- Disclaimer

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Reviewed on 04/30/2019





Safety Data Sheet

acc. to OSHA HCS

Printing date 04	/30/2019
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Reviewed on 04/30/2019

1 Identification

- Product identifier

- Trade name: Vibra-TITE® Epoxy

- Synonyms: 924 Epoxy Blue Part B
- Part number: VT924B
- 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

GHS05 Corrosion all.

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

Eye Dam. 1 H318 Causes serious eye damage.



Skin Sens. 1 H317 May cause an allergic skin reaction.

- Label elements

- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

- Hazard pictograms



- Signal word Danger

- Hazard-determining components of labeling:
- Fatty acids, C18-unsatd, reaction products with polyethylenepolyamines Aminophenol triethylenetetramine Pigment
- Hazard statements
- H314 Causes severe skin burns and eye damage.
- 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 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+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting. P302+P352 If on skin: Wash with plenty of water. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Safety Data Sheet acc. to OSHA HCS

Printing date 04/30/2019

Trade name: Vibra-TITE® Epoxy

Reviewed on 04/30/2019

(Contd. of page 1) 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.

 P310
 Specific treatment (see on this label).

 P333+P313
 If skin irritation or rash occurs: Get medical advice/attention.

 P363
 Wash contaminated clothing before reuse.

 P405
 Store locked up.

 P501
 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:

- NFPA ratings (scale 0 - 4)

Health = 3 Fire = 1 Reactivity = 0

- HMIS-ratings (scale 0 - 4)

HEALTH *3	Health = *3
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:

Dangerous	components.	
CAS: 68410-23-1	Fatty acids, C18-unsatd, reaction products with polyethylenepolyamines Eye Dam. 1, H318; Skin Irrit. 2, H315	80 – 89%
CAS: 90-72-2	Aminophenol Skin Corr. 1C, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312	5 – 9%
CAS: 112-24-3	triethylenetetramine Skin Corr. 1B, H314; Acute Tox. 4, H312; Skin Sens. 1, H317	1 – 4%
	Pigment Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	1 – 4%
CAS: 71074-89-0	Bis (dimethylaminomethyl) phenol Skin Corr. 1B, H314; Eye Dam. 1, H318	1 – 4%

4 First-aid measures

- Description of first aid measures

- After inhalation:

- Supply fresh air and to be sure call for a doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then 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.

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.

Trade name: Vibra-TITE® Epoxy

(Contd. of page 2)

Reviewed on 04/30/2019

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:
- 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: None.
- 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: 112-24-3 triethylenetetramine

- WEEL Long-term value: 6 mg/m³, 1 ppm
 - Skin

- 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 skin.
- 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.

Safety Data Sheet acc. to OSHA HCS

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Reviewed on 04/30/2019

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

- Information on basic physical and ch	emical properties
- General Information	
- Appearance:	
- Form: - Color:	Viscous
- Color: - Odor:	Blue 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:	149 °C (300.2 °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:	Not determined.
- Upper:	Not determined.
- Vapor pressure:	Not determined.
- Density:	Not determined.
- Relative density	Not determined.
- Vapor density	Not determined.
- Evaporation rate	Not determined.
- Solubility in / Miscibility with	
- Water:	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/wa	<i>ter):</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:	0.0 %
- Other information	No further relevant information available.

- 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.

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- Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicological information

- Information on toxicological effects

- Acute toxicity:

LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate) Oral LD50 12,286 mg/kg (rat)

Dermal LD50 13,281 mg/kg

CAS: 68410-23-1 Fatty acids, C18-unsatd, reaction products with polyethylenepolyamines

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

CAS: 90-72-2 Aminophenol

Oral LD50 1,200 mg/kg (rat)

Dermal LD50 2,000 mg/kg (rat)

CAS: 112-24-3 triethylenetetramine

Oral LD50 2,500 mg/kg (rat)

Dermal LD50 805 mg/kg (rabbit)

- Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- on the eye: Strong irritant with the danger of severe eye injury.
- 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:

- Aquatic toxicity:	
CAS: 68410-23-1 Fatty acids, C18-unsatd, reaction products with polyethylenepolyamines	
EC50 8,828 mg/kg (daphnia)	
- 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 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.
- 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.

(Contd. of page 5)

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Reviewed on 04/30/2019

- Uncleaned packagings:

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

UN-Number	
- DOT, IMDG, IATA	UN1760
UN proper shipping name - DOT	Corrosive liquids, n.o.s. (2,4,6-tris(dimethylaminomethyl)phen Triethylenetetramine)
- IMDG - IATA	CORROSIVE LIQUID, N.O.S. (2,4,6-tris(dimethylaminomethyl phenol, TRIETHYLENETETRAMINE), MARINE POLLUTANT
	CORROSIVE LIQUID, N.O.S. (2,4,6-tris(dimethylaminomethyliphenol, TRIETHYLENETETRAMINE)
Transport hazard class(es)	
- DOT	
the alter consistent	
- Class	8 Corrosive substances
- Label	8
- IMDG	
- Class	8 Corrosive substances
- Label - IATA	8
- Class - Label	8 Corrosive substances 8
Packing group - DOT, IMDG, IATA	111
Environmental hazards:	Product contains environmentally hazardous substances: Fatty acids, C18-unsatd, reaction products with polyethylenepolyamines
- Marine pollutant:	Yes Symbol (fish and tree)
Special precautions for user	Warning: Corrosive substances
- Danger code (Kemler):	80
- EMS Number:	F-A,S-B
- Segregation groups	Alkalis
- Stowage Category - Stowage Code	A SW2 Clear of living quarters.
Transport in bulk according to Annex II of MA and the IBC Code	
Transport/Additional information:	
- DOT	
- Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
- IMDG	
 Limited quantities (LQ) 	5L

Trade name: Vibra-TITE® Epoxy

	(Contd. of page 6)
- 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 1760 CORROSIVE LIQUID, N.O.S. (2,4,6- TRIS(DIMETHYLAMINOMETHYL)PHENOL, TRIETHYLENETETRAMINE), 8, III, ENVIRONMENTALLY HAZARDOUS

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):	
None of the ingredients is listed.	
- TSCA (Toxic Substances Control Act):	
Fatty acids, C18-unsatd, reaction products with polyethylenepolyamines	ACTIVE
Aminophenol	ACTIVE
triethylenetetramine	ACTIVE
Pigment	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.	
 Chemicals known to cause reproductive toxicity for females 	5.
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 / 8

- 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

Trade name: Vibra-TITE® Epoxy

Reviewed on 04/30/2019

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

- * Data compared to the previous version altered.

- Disclaimer

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