

Kit Components

| Product code | Description |
|--------------|---|
| VT924 | Vibra-TITE® Epoxy 924 Epoxy - Blue |

Components:

| | |
|--------|-------------------|
| VT924A | Vibra-TITE® Epoxy |
| VT924B | Vibra-TITE® Epoxy |

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

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



GHS07

Skin Irritation 2

H315 Causes skin irritation.

Eye Irritation 2A

H319 Causes serious eye irritation.

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure 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



GHS07

- **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 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.

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

Trade name: Vibra-TITE® Epoxy

(Contd. of page 1)

| | |
|----------------|--|
| 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). |
| 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. |

- 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**

CAS: 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:** 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: 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.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

Trade name: Vibra-TITE® Epoxy

(Contd. of page 2)

- **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 section 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
- **Body protection:** Protective work clothing

9 Physical and chemical properties

| | |
|--|---|
| - Information on basic physical and chemical properties | |
| - General Information | |
| - Appearance: | |
| - Form: | Viscous |
| - Color: | Not determined. |
| - Odor: | Characteristic |
| - Odor threshold: | Not determined. |
| - pH-value: | Not applicable. |
| - Change in condition | |
| - Melting point/Melting range: | Undetermined. |
| - Boiling point/Boiling range: | 260 °C (500 °F) |
| - Flash point: | 251 °C (483.8 °F) |
| - Flammability (solid, gaseous): | Product is not flammable. |
| - Decomposition temperature: | Not determined. |
| - Ignition temperature: | 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/cm ³ (9.76365 lbs/gal) |

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

Trade name: Vibra-TITE® Epoxy

(Contd. of page 3)

| | |
|---|--|
| - Relative density | Not determined. |
| - Vapor density | Not applicable. |
| - Evaporation rate | Not applicable. |
| - Solubility in / Miscibility with | |
| - Water: | Insoluble. |
| - Partition coefficient (n-octanol/water): | 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.
- **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.
- **Ecotoxicological effects:**
 - **Remark:** Toxic for fish
- **Additional ecological information:**
 - **General notes:**

Water hazard class 2 (Assessment by list): 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.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

Trade name: Vibra-TITE® Epoxy

(Contd. of page 4)

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

| | |
|---|---|
| <p>- UN-Number - DOT - IMDG, IATA</p> | <p>not regulated UN3082</p> |
| <p>- UN proper shipping name - DOT - IMDG, IATA</p> | <p>not regulated ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol-A-(epichlorhydrin); epoxy resin)</p> |
| <p>- Transport hazard class(es) - DOT - Class</p> | <p>not regulated</p> |
| <p>- IMDG</p> <div style="text-align: center;"></div> <p>- Class - Label</p> | <p>9 Miscellaneous dangerous substances and articles 9</p> |
| <p>- IATA</p> <div style="text-align: center;"></div> <p>- Class - Label</p> | <p>9 Miscellaneous dangerous substances and articles 9</p> |
| <p>- Packing group - DOT - IMDG, IATA</p> | <p>not regulated III</p> |
| <p>- Environmental hazards:</p> <p>- Marine pollutant: - Special marking (IATA):</p> | <p>Product contains environmentally hazardous substances: bisphenol-A-(epichlorhydrin); epoxy resin No Symbol (fish and tree)</p> |
| <p>- Special precautions for user - Hazard identification number (Kemler code): - EMS Number: - Stowage Category</p> | <p>Warning: Miscellaneous dangerous substances and articles 90 F-A,S-F A</p> |
| <p>- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</p> | <p>Not applicable.</p> |
| <p>- Transport/Additional information:</p> <p>- IMDG - Limited quantities (LQ) - Excepted quantities (EQ)</p> | <p>5L Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g</p> |
| <p>- UN "Model Regulation":</p> | <p>UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL-A-(EPICHLORHYDRIN); EPOXY RESIN), 9, III</p> |

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

Trade name: Vibra-TITE® Epoxy

(Contd. of page 5)

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.

- **Sara**

- **Section 355 (extremely hazardous substances):**

Substance is not listed.

- **Section 313 (Specific toxic chemical listings):**

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 reproductive toxicity for females:**

Substance is not listed.

- **Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

- **Chemicals known to cause developmental toxicity:**

Substance is not listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

Substance is not listed.

- **TLV (Threshold Limit Value)**

Substance is not listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not 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 Affairs

- **Contact:** Safety, Health and Environmental Affairs

- **Classification System:**

- **HMIS-ratings (scale 0 - 4)**

| | | |
|------------|---|----------------|
| HEALTH | 2 | Health = 2 |
| FIRE | 0 | Fire = 0 |
| REACTIVITY | 0 | Reactivity = 0 |

- **NFPA ratings (scale 0 - 4)**

| | | | |
|---|---|---|----------------|
| 2 | 0 | 0 | Health = 2 |
| | | | Fire = 0 |
| | | | Reactivity = 0 |

- **Date of preparation / last revision** 01/23/2024

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Irritation 2: Skin corrosion/irritation – Category 2

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

Trade name: Vibra-TITE® Epoxy

(Contd. of page 6)

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Sensitization - Skin 1: Skin sensitisation – Category 1

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

- * **Data compared to the previous version altered.**

- Disclaimer

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Safety Data Sheet
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Printing date 01/23/2024

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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

Skin Corrosion 1C H314 Causes severe skin burns and eye damage.
Eye Damage 1 H318 Causes serious eye damage.



GHS07

Sensitization - Skin 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

- **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 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.

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

Trade name: Vibra-TITE® Epoxy

(Contd. of page 1)

| | |
|----------------|--|
| 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. |
| P321 | Specific treatment (see on this label). |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P363 | Wash contaminated clothing before reuse. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

- Other hazards**- Results of PBT and vPvB assessment**

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

* 3 Composition/information on ingredients

- Chemical characterization: Mixtures

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

- Dangerous components:

| | | |
|-----------------|--|----------|
| CAS: 68410-23-1 | Fatty acids, C18-unsatd, reaction products with polyethylenepolyamines Eye Damage 1, H318; Skin Irritation 2, H315 | 80 – 89% |
| CAS: 90-72-2 | Aminophenol Skin Corrosion 1C, H314; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312 | 5 – 9% |
| CAS: 112-24-3 | triethylenetetramine Skin Corrosion 1B, H314; Acute Toxicity - Dermal 4, H312; Sensitization - Skin 1, H317 | 1 – 4% |
| | Pigment Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317 | 1 – 4% |
| CAS: 71074-89-0 | Bis (dimethylaminomethyl) phenol Skin Corrosion 1B, H314; Eye Damage 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:** Use fire fighting measures that suit the environment.

- **Special hazards arising from the substance or mixture** No further relevant information available.

- Advice for firefighters**- Protective equipment:**

Wear self-contained respiratory protective device.
Wear fully protective suit.

* 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation
Wear protective clothing.

- Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

- Methods and material for containment and cleaning up:

Ensure adequate ventilation.
Dispose of the collected material according to regulations.

- Reference to other sections

See Section 7 for information on safe handling.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

Trade name: Vibra-TITE® Epoxy

See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

(Contd. of page 2)

* 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:** 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 section 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/m ³ , 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:



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

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- Information on basic physical and chemical properties

- General Information

- Appearance:

- **Form:**

Viscous

- **Color:**

Blue

- **Odor:**

Characteristic

- **Odor threshold:**

Not determined.

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

Trade name: Vibra-TITE® Epoxy

(Contd. of page 3)

| | |
|---|---|
| - 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. |
| - Ignition temperature: | 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/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:**

- **LD/LC50 values that are relevant for classification:**

ATE (Acute Toxicity Estimate)

| | | |
|--------|------|--------------------|
| Oral | LD50 | 14,118 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) |

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

Trade name: Vibra-TITE® Epoxy

(Contd. of page 4)

- **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:**

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.- **Ecotoxicological 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.- **Uncleaned packagings:**- **Recommendation:** Disposal must be made according to official regulations.

*14 Transport information

- **UN-Number**- **DOT, IMDG, IATA**

UN1760

- **UN proper shipping name**- **DOT**

Corrosive liquids, n.o.s. (2,4,6-tris(dimethylaminomethyl)phenol, Triethylenetetramine)

- **IMDG**

CORROSIVE LIQUID, N.O.S. (2,4,6-tris(dimethylaminomethyl)phenol, TRIETHYLENETETRAMINE), MARINE POLLUTANT

- **IATA**

CORROSIVE LIQUID, N.O.S. (2,4,6-tris(dimethylaminomethyl)phenol, TRIETHYLENETETRAMINE)

(Contd. on page 6)

Safety Data Sheet






acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

Trade name: Vibra-TITE® Epoxy

(Contd. of page 5)

| | |
|---|---|
| - Transport hazard class(es) | |
| - DOT | |
|   | |
| - Class | 8 Corrosive substances |
| - Label | 8 |
| <hr/> | |
| - IMDG | |
|   | |
| - Class | 8 Corrosive substances |
| - Label | 8 |
| <hr/> | |
| - IATA | |
|  | |
| - Class | 8 Corrosive substances |
| - Label | 8 |
| <hr/> | |
| - Packing group | |
| - DOT, IMDG, IATA | III |
| <hr/> | |
| - Environmental hazards: | Product contains environmentally hazardous substances: Fatty acids, C18-unsatd, reaction products with polyethylenepolyamines |
| - Marine pollutant: | Yes Symbol (fish and tree) |
| <hr/> | |
| - Special precautions for user | Warning: Corrosive substances |
| - Hazard identification number (Kemler code): | 80 |
| - EMS Number: | F-A,S-B |
| - Segregation groups | (SGG18) Alkalis |
| - Stowage Category | A |
| - Stowage Code | SW2 Clear of living quarters. |
| <hr/> | |
| - Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| <hr/> | |
| - Transport/Additional information: | |
| - DOT | |
| - Quantity limitations | On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L |
| - Remarks: | Special marking with the symbol (fish and tree). |
| <hr/> | |
| - 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 |
| <hr/> | |
| - 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

No further relevant information available.

- Sara

- Section 355 (extremely hazardous substances):

None of the ingredients is listed.

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

Trade name: Vibra-TITE® Epoxy

(Contd. of page 6)

- 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:

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)

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 Affairs**- Contact:** Safety, Health and Environmental Affairs**- Classification System:****- HMIS-ratings (scale 0 - 4)**

| | | |
|------------|---|----------------|
| HEALTH | 3 | Health = *3 |
| FIRE | 1 | Fire = 1 |
| REACTIVITY | 0 | Reactivity = 0 |

- NFPA ratings (scale 0 - 4)

| | | | |
|---|---|---|----------------|
| 3 | 1 | 0 | Health = 3 |
| | | | Fire = 1 |
| | | | Reactivity = 0 |

- Date of preparation / last revision 01/23/2024**- Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 VOC: Volatile Organic Compounds (USA, EU)
 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 Toxicity - Oral 4: Acute toxicity – Category 4
 Skin Corrosion 1B: Skin corrosion/irritation – Category 1B

(Contd. on page 8)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

Trade name: Vibra-TITE® Epoxy

(Contd. of page 7)

Skin Corrosion 1C: Skin corrosion/irritation – Category 1C
Skin Irritation 2: Skin corrosion/irritation – Category 2
Eye Damage 1: Serious eye damage/eye irritation – Category 1
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Sensitization - Skin 1: Skin sensitisation – Category 1

- * **Data compared to the previous version altered.**

- **Disclaimer**

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