

**Kit Components**

Product code	Description
<b>VT933</b>	<b>Vibra-TITE® Epoxy 933 Impregnating and Encapsulating Epoxy</b>

## Components:

VT933A	Vibra-TITE® Epoxy
VT933B	Vibra-TITE® Epoxy

**Safety Data Sheet**  
according to HPR, Schedule 1

Printing date 01/29/2024

Reviewed on 01/29/2024

**1 Identification**

**- Product identifier**

- **Trade name:** Vibra-TITE® Epoxy
- **Synonyms:** 933 Impregnating and Encapsulating Epoxy - Part A
- **Part number:** VT933A
- **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 identification**

**- Classification of the substance or mixture**



GHS07

- |   |   |
|---|---|
| Skin Irritation - Category 2                                  | H315 Causes skin irritation.              |
| Eye Irritation - Category 2A                                  | H319 Causes serious eye irritation.       |
| Skin Sensitizer - Category 1                                  | H317 May cause an allergic skin reaction. |
| Specific Target Organ Toxicity - Single Exposure - Category 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  
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/vapours/spray.  |
| P264           | Wash thoroughly after handling.  |
| P271           | Use only outdoors or in a well-ventilated area.  |
| P272           | Contaminated work clothing should not be allowed out of the workplace.   |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P280           | Wear protective gloves.  |
| P302+P352      | If on skin: Wash with plenty of water.   |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312           | Call a poison center/doctor if you feel unwell.  |
| P362+P364      | Take off contaminated clothing and wash it before reuse.   |

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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.
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.

### 3 Composition/Information on ingredients

#### - Chemical characterization: Mixtures

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

#### - Dangerous components:

CAS: 25068-38-6	Bisphenol-A epoxy resin Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	15 – 40% w/w
CAS: 14228-73-0	Epoxy Resin Skin Irritation - Category 2, H315; Skin Sensitizer - Category 1B, H317; Eye Irritation - Category 2B, H320	3 – 7% w/w

### 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.

- **For safety reasons unsuitable extinguishing agents:** Water

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

#### - Advice for firefighters

##### - Protective equipment:

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

### 6 Accidental release measures

#### - Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Wear protective clothing.

#### - Environmental precautions:

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.

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Trade name: Vibra-TITE® Epoxy

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**- 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 section 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

- **Body protection:** Protective work clothing

### 9 Physical and chemical properties

**- Information on basic physical and chemical properties**

**- General Information**

**- Appearance:**

**- Form:**

Liquid

**- Color:**

Beige

**- Odor:**

Characteristic

**- Odor threshold:**

Not determined.

**- pH-value:**

Not determined.

**- Change in condition**

**- Melting point/Melting range:**

Undetermined.

**- Boiling point/Boiling range:**

≥ 260 °C

**- Flash point:**

111 °C

**- Flammability (solid, gaseous):**

Not applicable.

**- Decomposition temperature:**

Not determined.

**- Ignition temperature:**

Product is not selfigniting.

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Trade name: Vibra-TITE® Epoxy

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- <b>Danger of explosion:</b>	Product does not present an explosion hazard.
- <b>Explosion limits:</b>	
- <b>Lower:</b>	Not determined.
- <b>Upper:</b>	Not determined.
- <b>Vapor pressure:</b>	Not determined.
- <b>Density at 20 °C:</b>	~ 1.6536 g/cm <sup>3</sup>
- <b>Relative density</b>	Not determined.
- <b>Vapor density</b>	Not determined.
- <b>Evaporation rate</b>	Not determined.
- <b>Solubility in / Miscibility with</b>	
- <b>Water:</b>	Not miscible or difficult to mix.
- <b>Partition coefficient (n-octanol/water):</b>	Not determined.
- <b>Viscosity:</b>	
- <b>Dynamic at 20 °C:</b>	25,000 mPas
- <b>Kinematic:</b>	Not determined.
- <b>Solvent content:</b>	
- <b>VOC content:</b>	0.00 % 0.0 g/l / 0.00 lb/gal
- <b>Solids content:</b>	54.7 %
- <b>Other information</b>	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:**

CAS: 14228-73-0 Epoxy Resin

Oral LD50 &gt; 2,000 mg/kg (rat)

Dermal LD50 &gt; 2,000 mg/kg (rabbit)

- **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.

### 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.

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Trade name: Vibra-TITE® Epoxy


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- **Mobility in soil** No further relevant information available.
- **Ecotoxicological 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

- <b>UN-Number</b> - <b>DOT/TDG, ADR, IMDG, IATA</b>	UN3082
- <b>UN proper shipping name</b> - <b>DOT/TDG</b>	Environmentally hazardous substance, liquid, n.o.s. (bisphenol-A-(epichlorhydrin); epoxy resin)
- <b>ADR</b>	UN3082 Environmentally hazardous substance, liquid, n.o.s. (bisphenol-A-(epichlorhydrin); epoxy resin)
- <b>IMDG</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol-A-(epichlorhydrin); epoxy resin), MARINE POLLUTANT
- <b>IATA</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol-A-(epichlorhydrin); epoxy resin)
- <b>Transport hazard class(es)</b> - <b>DOT/TDG, ADR, IMDG, IATA</b>	
	
- <b>Class</b> - <b>Label</b>	9 Miscellaneous dangerous substances and articles 9
- <b>Packing group</b> - <b>DOT/TDG, ADR, IMDG, IATA</b>	III
- <b>Environmental hazards:</b>	Product contains environmentally hazardous substances: bisphenol-A-(epichlorhydrin); epoxy resin
- <b>Marine pollutant:</b>	Yes Symbol (fish and tree)
- <b>Special marking (ADR):</b>	Symbol (fish and tree)
- <b>Special marking (IATA):</b>	Symbol (fish and tree)
- <b>Special precautions for user</b>	Warning: Miscellaneous dangerous substances and articles
- <b>Hazard identification number (Kemler code):</b>	90
- <b>EMS Number:</b>	F-A,S-F
- <b>Stowage Category</b>	A
- <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.

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Trade name: Vibra-TITE® Epoxy

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<b>- Transport/Additional information:</b>	
<b>- DOT/TDG</b>	
- <b>Quantity limitations</b>	On passenger aircraft/rail: No limit On cargo aircraft only: No limit
- <b>Remarks:</b>	Special marking with the symbol (fish and tree).
<hr/>	
<b>- ADR</b>	
- <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<hr/>	
<b>- IMDG</b>	
- <b>Limited quantities (LQ)</b>	5L
- <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>- UN "Model Regulation":</b>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL-A-(EPICHLORHYDRIN); EPOXY RESIN), 9, III

## \*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.

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

None of the ingredients is listed.

**- TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

**- Canadian substance listings:**
**- Canadian Domestic Substances List (DSL)**

All ingredients are listed.

**- Canadian Non-Domestic Substances List (NDSL)**

None of the ingredients is listed.

**- Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

**- Canadian Ingredient Disclosure list (limit 1%)**

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	2	Health = 2
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

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

1	2	0	Health = 2
			Fire = 1
			Reactivity = 0

**- Date of the latest revision of the safety data sheet** 01/29/2024

**- Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association

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**Trade name:** Vibra-TITE® Epoxy

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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)  
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

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

- **Disclaimer**

The information set forth is based on information that ND Industries, Incorporated believes to be accurate. No warranty, expressed or implied, is intended. The information is provided solely for your information and consideration and ND Industries Inc. assumes no legal responsibility for use or reliance thereon. In the event of a discrepancy between the information on the non-English document and its English counterpart, the English version shall supersede.

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**Safety Data Sheet**  
according to HPR, Schedule 1

Printing date 01/29/2024

Reviewed on 01/29/2024

**1 Identification**

**- Product identifier**

- **Trade name:** Vibra-TITE® Epoxy
- **Synonyms:** 933 Impregnating and Encapsulating Epoxy - Part B
- **Part number:** VT933B
- **CAS Number:** 26590-20-5
- **EC number:** 247-830-1
- **Index number:** 607-240-00-0
- **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 identification**

**- Classification of the substance or mixture**



GHS08 Health hazard

Respiratory Sensitizer - Category 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS05 Corrosion

Serious Eye Damage - Category 1 H318 Causes serious eye damage.



GHS07

Skin Sensitizer - Category 1 H317 May cause an allergic skin reaction.

**- Label elements**

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

**- Hazard pictograms**



GHS05 GHS08

**- Signal word** Danger

**- Hazard-determining components of labeling:**

1,2,3,6-tetrahydromethylphthalic anhydride

**- Hazard statements**

H318 Causes serious eye damage.

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

H317 May cause an allergic skin reaction.

**- Precautionary statements**

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

P272

Contaminated work clothing should not be allowed out of the workplace.

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Trade name: Vibra-TITE® Epoxy

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P280	Wear protective gloves/protective clothing/eye protection/face protection.
P280	Wear protective gloves.
P284	[In case of inadequate ventilation] wear respiratory protection.
P302+P352	If on skin: Wash with plenty of water.
P304+P341	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a poison center/doctor.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

### 3 Composition/Information on ingredients

#### - Chemical characterization: Substances

##### - CAS No. Description

CAS: 26590-20-5 1,2,3,6-tetrahydromethylphthalic anhydride

##### - Identification number(s)

- EC number: 247-830-1

- Index number: 607-240-00-0

### \* 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.

#### - 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: Do not allow to enter sewers/ surface or ground water.

#### - Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

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

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Trade name: Vibra-TITE® Epoxy

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## - Conditions for safe storage, including any incompatibilities

### - Storage:

- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** 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:

CAS: 26590-20-5 1,2,3,6-tetrahydromethylphthalic anhydride

EL (Canada) Skin, S(D), S(R)

TLV (USA) STEL: 2\*\* mg/m<sup>3</sup>, 0.3\* ppm

TWA: 0.5\*\* mg/m<sup>3</sup>, 0.07\* ppm

TLV-SL: 0.7mg/100cm<sup>2</sup>, \*ppb, DSEN,RSEN,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 eyes.

##### - 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.

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:

Liquid

###### - Color:

Colorless

##### - Odor:

Characteristic

##### - Odor threshold:

Not determined.

##### - pH-value:

Not determined.

#### - Change in condition

##### - Melting point/Melting range:

Undetermined.

##### - Boiling point/Boiling range:

Undetermined.

##### - Flash point:

94 °C

##### - Flammability (solid, gaseous):

Not applicable.

##### - Decomposition temperature:

Not determined.

##### - Ignition temperature:

Not determined.

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Trade name: Vibra-TITE® Epoxy

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- <b>Danger of explosion:</b>	Product does not present an explosion hazard.
- <b>Explosion limits:</b>	
- <b>Lower:</b>	Not determined.
- <b>Upper:</b>	Not determined.
- <b>Vapor pressure:</b>	Not determined.
- <b>Density at 20 °C:</b>	1.21 g/cm <sup>3</sup>
- <b>Relative density</b>	Not determined.
- <b>Vapor density</b>	Not determined.
- <b>Evaporation rate</b>	Not determined.
- <b>Solubility in / Miscibility with</b>	
- <b>Water:</b>	Not miscible or difficult to mix.
- <b>Partition coefficient (n-octanol/water):</b>	Not determined.
- <b>Viscosity:</b>	
- <b>Dynamic:</b>	Not determined.
- <b>Kinematic:</b>	Not determined.
- <b>VOC content:</b>	0.00 % 0.0 g/l / 0.00 lb/gal
- <b>Solids content:</b>	0.0 %
- <b>Other information</b>	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:** No irritant effect.
      - **on the eye:** Strong irritant with the danger of severe eye injury.
  - **Sensitization:**
    - Sensitization possible through inhalation.
    - 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.

### 12 Ecological information

- **Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
  - **Bioaccumulative potential** No further relevant information available.
  - **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
  - **General notes:**
    - Water hazard class 1 (Self-assessment): slightly hazardous for water
    - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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**- 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**

<b>- UN-Number</b>	
- DOT/TDG, ADR, ADN, IMDG, IATA	not regulated
<b>- UN proper shipping name</b>	
- DOT/TDG, ADR, ADN, IMDG, IATA	not regulated
<b>- Transport hazard class(es)</b>	
- DOT/TDG, ADR, ADN, IMDG, IATA	
- Class	not regulated
<b>- Packing group</b>	
- DOT/TDG, ADR, IMDG, IATA	not regulated
<b>- Environmental hazards:</b>	
- Marine pollutant:	No
<b>- Special precautions for user</b>	Not applicable.
<b>- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>- UN "Model Regulation":</b>	not regulated

**\*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

**- Canadian substance listings:****- Canadian Domestic Substances List (DSL)**

Substance is listed.

**- Canadian Non-Domestic Substances List (NDSL)**

Substance is not listed.

**- Canadian Ingredient Disclosure list (limit 0.1%)**

Substance is not listed.

**- Canadian Ingredient Disclosure list (limit 1%)**

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

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**- 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 the latest revision of the safety data sheet** 01/29/2024**- Abbreviations and acronyms:**

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

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

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