Kit Components

Product code	Description
VT915	**Vibra-TITE® Epoxy** **915 Grey Epoxy**

Components:

VT915A	Vibra-TITE® Epoxy
VT915B	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:*** 915 Grey Epoxy - Part A
    - ***Part number:*** VT915A
    - ***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 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
      Bisphenol F 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.
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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Trade name: Vibra-TITE® Epoxy

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

CAS: 25068-38-6	Bisphenol-A epoxy resin Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	50 – 59%
CAS: 9003-36-5	Bisphenol F epoxy resin Skin Irritation 2, H315; Sensitization - Skin 1, H317	40 – 49%
CAS: 1333-86-4	Carbon black Self-heating substances and mixtures 2, H252; Carcinogenicity 2, H351	≤ 1%

4 First-aid measures

- ***Description of first aid measures***
  - ***After inhalation:***
    Supply fresh air and to be sure call for a doctor.
    In case of unconsciousness place patient stably in side position for transportation.
    Supply fresh air; consult doctor in case of complaints.
  - ***After skin contact:*** Immediately wash with water and soap and rinse thoroughly.
  - ***After eye contact:*** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - ***After swallowing:*** If symptoms persist consult doctor.
  - ***Information for doctor:***
    - ***Most important symptoms and effects, both acute and delayed*** No further relevant information available.
    - ***Indication of any immediate medical attention and special treatment needed***
      No further relevant information available.

5 Fire-fighting measures

- ***Extinguishing media***
  - ***Suitable extinguishing agents:***
    CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- ***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.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

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Trade name: Vibra-TITE® Epoxy

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7 Handling and storage

- ***Handling:***
  - ***Precautions for safe handling***
    Ensure good ventilation/exhaustion at the workplace.
    Prevent formation of aerosols.
  - ***Information about protection against explosions and fires:*** No special measures required.
- ***Conditions for safe storage, including any incompatibilities***
  - ***Storage:***
    - ***Requirements to be met by storerooms and receptacles:*** No special requirements.
    - ***Information about storage in one common storage facility:*** Not required.
    - ***Further information about storage conditions:*** Keep receptacle tightly sealed.
- ***Specific end use(s)*** No further relevant information available.

*

8 Exposure controls/personal protection

- ***Additional information about design of technical systems:*** No further data; see 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: 1333-86-4 Carbon black	
PEL	Long-term value: 3.5 mg/m³
REL	Long-term value: 3.5* mg/m³ *0.1 in presence of PAHs;See Pocket Guide Apps.A+C
TLV	Long-term value: 3* mg/m³ *inhalable fraction, A3

  - ***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:*** Fluid
      - ***Color:*** Grey
    - ***Odor:*** Characteristic
    - ***Odor threshold:*** Not determined.

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- ***pH-value:***	Not determined.
- ***Change in condition***	
- ***Melting point/Melting range:***	Undetermined.
- ***Boiling point/Boiling range:***	> 200 °C (> 392 °F)
- ***Flash point:***	95 °C (203 °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 at 20 °C (68 °F):***	≥ 1.1851 – ≤ 1.1871 g/cm³ (≥ 9.88966 – ≤ 9.90635 lbs/gal)
- ***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 at 20 °C (68 °F):***	7,000 mPas
- ***Kinematic:***	Not determined.
- ***Solvent content:***	
- ***VOC content:***	0.00 % 0.0 g/l / 0.00 lb/gal
- ***Solids content:***	1.0 %
- ***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:***

CAS: 1333-86-4 Carbon black

Oral	LD50	10,000 mg/kg (rat)

  - ***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

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- ***Carcinogenic categories***

- *IARC (International Agency for Research on Cancer)*		
CAS: 1333-86-4	Carbon black	2B

- *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:*** No further relevant information available.
- ***Persistence and degradability*** No further relevant information available.
- ***Behavior in environmental systems:***
  - ***Bioaccumulative potential*** No further relevant information available.
  - ***Mobility in soil*** No further relevant information available.
- ***Ecotoxical effects:***
  - ***Remark:*** Toxic for fish
- ***Additional ecological information:***
  - ***General notes:***
    Water hazard class 2 (Self-assessment): hazardous for water
    Do not allow product to reach ground water, water course or sewage system.
    Danger to drinking water if even small quantities leak into the ground.
    Also poisonous for fish and plankton in water bodies.
    Toxic for aquatic organisms
- ***Results of PBT and vPvB assessment***
  - ***PBT:*** Not applicable.
  - ***vPvB:*** Not applicable.
- ***Other adverse effects*** No further relevant information available.

13 Disposal considerations

- ***Waste treatment methods***
  - ***Recommendation:*** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- ***Uncleaned packagings:***
  - ***Recommendation:*** Disposal must be made according to official regulations.

* 14 Transport information

- ***UN-Number***	
- ***DOT, IMDG, IATA***	UN3082
- ***UN proper shipping name***	
- ***DOT***	Environmentally hazardous substance, liquid, n.o.s. (bisphenol-A-(epichlorhydrin); epoxy resin, Bisphenol F epoxy resin)
- ***IMDG***	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol-A-(epichlorhydrin); epoxy resin, Bisphenol F epoxy resin), MARINE POLLUTANT
- ***IATA***	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol-A-(epichlorhydrin); epoxy resin, Bisphenol F epoxy resin)
- ***Transport hazard class(es)***	
- ***DOT, IMDG, IATA***	
- ***Class***	9 Miscellaneous dangerous substances and articles
- ***Label***	9
- ***Packing group***	
- ***DOT, IMDG, IATA***	III

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Trade name: Vibra-TITE® Epoxy

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- ***Environmental hazards:***	Product contains environmentally hazardous substances: bisphenol-A-(epichlorhydrin); epoxy resin
- ***Marine pollutant:***	Yes Symbol (fish and tree)
- ***Special marking (IATA):***	Symbol (fish and tree)
- ***Special precautions for user***	Warning: Miscellaneous dangerous substances and articles
- ***Hazard identification number (Kemler code):***	90
- ***EMS Number:***	F-A,S-F
- ***Stowage Category***	A
- ***Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code***	Not applicable.
- ***Transport/Additional information:***	
- ***DOT***	
- ***Quantity limitations***	On passenger aircraft/rail: No limit On cargo aircraft only: No limit
- ***Remarks:***	Special marking with the symbol (fish and tree).
- ***IMDG***	
- ***Limited quantities (LQ)***	5L
- ***Excepted quantities (EQ)***	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- ***UN "Model Regulation":***	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL-A-(EPICHLORHYDRIN); EPOXY RESIN, BISPHENOL F 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.

- ***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)***

CAS: 1333-86-4	Carbon black	A4

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

CAS: 1333-86-4	Carbon black

- ***Chemical safety assessment:*** A Chemical Safety Assessment has not been carried out.

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Trade name: Vibra-TITE® Epoxy

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* 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
- ***Classification System:***
  - ***HMIS-ratings (scale 0 - 4)***

Health = 2
Fire = 1
Reactivity = 0

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

Health = 2
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
Self-heating substances and mixtures 2: Self-heating substances and mixtures – Category 2
Skin Irritation 2: Skin corrosion/irritation – Category 2
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Sensitization - Skin 1: Skin sensitisation – Category 1
Carcinogenicity 2: Carcinogenicity – Category 2
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

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

- ***Disclaimer***

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

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1 Identification

- ***Product identifier***
  - ***Trade name:*** Vibra-TITE® Epoxy
    - ***Synonyms:*** 915 Grey Epoxy - Part B
    - ***Part number:*** VT915B
    - ***Application of the substance / the mixture*** Adhesives
- ***Details of the supplier of the safety data sheet***
  - ***Manufacturer/Supplier:***
    ND Industries, Inc
    1000 North Crooks Road
    Clawson, MI 48017
    USA
    Telephone: +1-248-288-0000
    Email: info@ndindustries.com
    Website: www.ndindustries.com
  - ***Information department:*** Product Safety Department
  - ***Emergency telephone number:***
    United States: 1-800-424-9300
    International: +1-703-527-3887

*
2 Hazard(s) identification

- ***Classification of the substance or mixture***


GHS08 Health hazard

Toxic to Reproduction 2	H361 Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity - Repeated Exposure 2	H373 May cause damage to organs through prolonged or repeated exposure.


GHS05 Corrosion

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


GHS07

Acute Toxicity - Oral 4	H302 Harmful if swallowed.
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 GHS08

    - ***Signal word*** Danger
    - ***Hazard-determining components of labeling:***
      Benzyl alcohol
      Curing Agent
      Nonylphenol
      Epoxy Resin
    - ***Hazard statements***
      H302 Harmful if swallowed.
      H314 Causes severe skin burns and eye damage.
      H317 May cause an allergic skin reaction.
      H361 Suspected of damaging fertility or the unborn child.
      H373 May cause damage to organs through prolonged or repeated exposure.

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- ***Precautionary statements***

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P260	Do not breathe dusts or mists.
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+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P314	Get medical advice/attention if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

- ***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: 100-51-6	Benzyl alcohol Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Acute Toxicity - Inhalation 4, H332; Eye Irritation 2A, H319	30 – 39%
CAS: 1761-71-3	Curing Agent Specific Target Organ Toxicity - Repeated Exposure 2, H373; Skin Corrosion 1B, H314; Acute Toxicity - Oral 4, H302; Sensitization - Skin 1, H317	20 – 29%
CAS: 84852-15-3	Nonylphenol Toxic to Reproduction 2, H361; Skin Corrosion 1B, H314; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302	10 – 19%
CAS: 14228-73-0	Epoxy Resin Skin Irritation 2, H315; Sensitization - Skin 1B, H317; Eye Irritation 2B, H320	10 – 19%

4 First-aid measures

- ***Description of first aid measures***
  - ***General information:***
    Immediately remove any clothing soiled by the product.
    Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
  - ***After inhalation:***
    Supply fresh air and to be sure call for a doctor.
    In case of unconsciousness place patient stably in side position for transportation.
    Supply fresh air; consult doctor in case of complaints.
  - ***After skin contact:*** Immediately wash with water and soap and rinse thoroughly.
  - ***After eye contact:*** Rinse opened eye for several minutes under running water. Then consult a doctor.
  - ***After swallowing:***
    Immediately call a doctor.
    Drink copious amounts of water and provide fresh air. Immediately call a doctor.
  - ***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.

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Trade name: Vibra-TITE® Epoxy

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* 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:***
    Mouth respiratory protective device.
    Wear self-contained respiratory protective device.
    Wear fully protective suit.

* 6 Accidental release measures

- ***Personal precautions, protective equipment and emergency procedures***
  Wear protective equipment. Keep unprotected persons away.
  Ensure adequate ventilation
  Wear protective clothing.
- ***Environmental precautions:***
  Inform respective authorities in case of seepage into water course or sewage system.
  Do not allow to enter sewers/ surface or ground water.
- ***Methods and material for containment and cleaning up:***
  Use neutralizing agent.
  Dispose contaminated material as waste according to section 13.
  Ensure adequate ventilation.
  Dispose of the collected material according to regulations.
- ***Reference to other sections***
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

* 7 Handling and storage

- ***Handling:***
  - ***Precautions for safe handling***
    Ensure good ventilation/exhaustion at the workplace.
    Prevent formation of aerosols.
  - ***Information about protection against explosions and fires:*** No special measures required.
- ***Conditions for safe storage, including any incompatibilities***
  - ***Storage:***
    - ***Requirements to be met by storerooms and receptacles:*** No special requirements.
    - ***Information about storage in one common storage facility:*** Not required.
    - ***Further information about storage conditions:*** Keep receptacle tightly sealed.
- ***Specific end use(s)*** No further relevant information available.

8 Exposure controls/personal protection

- ***Additional information about design of technical systems:*** No further data; see 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: 100-51-6 Benzyl alcohol	
WEEL	Long-term value: 10 ppm

  - ***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.

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Trade name: Vibra-TITE® Epoxy

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- ***Protection of hands:***

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- ***Material of gloves***
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Nitrile rubber, NBR
- ***Penetration time of glove material***
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- ***As protection from splashes gloves made of the following materials are suitable:*** Nitrile rubber, NBR

- ***Eye protection:***

Tightly sealed goggles

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

*
9 Physical and chemical properties

- ***Information on basic physical and chemical properties***	
- ***General Information***	
- ***Appearance:***	
- ***Form:***	Fluid
- ***Color:***	Grey
- ***Odor:***	Characteristic
- ***Odor threshold:***	Not determined.
- ***pH-value:***	Not determined.
- ***Change in condition***	
- ***Melting point/Melting range:***	Undetermined.
- ***Boiling point/Boiling range:***	≥ 205.4 °C (≥ 401.7 °F)
- ***Flash point:***	111 °C (231.8 °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 at 20 °C (68 °F):***	≤ 0.1 hPa
- ***Vapor pressure at 50 °C (122 °F):***	≤ 0.7 hPa (≤ 0.5 mm Hg)
- ***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:***	
- ***Organic solvents:***	33.3 %

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- ***VOC content:***	33.30 % 333.0 g/l / 2.78 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	1,208 mg/kg
Dermal	LD50	6,006 mg/kg (rabbit)
Inhalative	LC50/4 h	33 mg/l

CAS: 100-51-6 Benzyl alcohol		
Oral	LD50	1,230 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)
CAS: 1761-71-3 Curing Agent		
Oral	LD50	500 mg/kg (ATE)
CAS: 84852-15-3 Nonylphenol		
Oral	LD50	1,412 mg/kg (rat)
CAS: 14228-73-0 Epoxy Resin		
Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rabbit)

    - ***Primary irritant effect:***
      - ***on the skin:*** Caustic effect on skin and mucous membranes.
      - ***on the eye:*** Strong caustic effect.
    - ***Sensitization:*** Sensitization possible through skin contact.
  - ***Additional toxicological information:***
    The product shows the following dangers according to internally approved calculation methods for preparations:
    Harmful
    Corrosive
    Irritant
    Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
    - ***Carcinogenic categories***
      - ***IARC (International Agency for Research on Cancer)***

None of the ingredients is listed.

      - ***NTP (National Toxicology Program)***

None of the ingredients is listed.

      - ***OSHA-Ca (Occupational Safety & Health Administration)***

None of the ingredients is listed.

12 Ecological information

- ***Toxicity***
  - ***Aquatic toxicity:*** No further relevant information available.
- ***Persistence and degradability*** No further relevant information available.
- ***Behavior in environmental systems:***
  - ***Bioaccumulative potential*** No further relevant information available.

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Trade name: Vibra-TITE® Epoxy

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- ***Mobility in soil*** No further relevant information available.
- ***Ecotoxical effects:***
  - ***Remark:*** Toxic for fish
- ***Additional ecological information:***
  - ***General notes:***
    Water hazard class 3 (Self-assessment): extremely hazardous for water
    Do not allow product to reach ground water, water course or sewage system, even in small quantities.
    Must not reach bodies of water or drainage ditch undiluted or unneutralized.
    Danger to drinking water if even extremely 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

- ***UN-Number***	
- ***DOT, IMDG, IATA***	UN1760
- ***UN proper shipping name***	
- ***DOT***	Corrosive liquids, n.o.s. (4-Nonylphenol, branched)
- ***IMDG***	CORROSIVE LIQUID, N.O.S. (4-Nonylphenol, branched), MARINE POLLUTANT
- ***IATA***	CORROSIVE LIQUID, N.O.S. (4-Nonylphenol, branched)
- ***Transport hazard class(es)***	
- ***DOT***	
- ***Class***	8 Corrosive substances
- ***Label***	8
- ***IMDG***	
- ***Class***	8 Corrosive substances
- ***Label***	8
- ***IATA***	
- ***Class***	8 Corrosive substances
- ***Label***	8
- ***Packing group***	
- ***DOT, IMDG, IATA***	II
- ***Environmental hazards:***	Product contains environmentally hazardous substances: 4-Nonylphenol, branched
- ***Marine pollutant:***	Yes Symbol (fish and tree)
- ***Special precautions for user***	Warning: Corrosive substances
- ***Hazard identification number (Kemler code):***	80

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Trade name: Vibra-TITE® Epoxy

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- ***EMS Number:***	F-A,S-B
- ***Stowage Category***	B
- ***Stowage Code***	SW2 Clear of living quarters.
- ***Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code***	Not applicable.
- ***Transport/Additional information:***	
- ***DOT***	
- ***Quantity limitations***	On passenger aircraft/rail: 1 L On cargo aircraft only: 30 L
- ***IMDG***	
- ***Limited quantities (LQ)***	1L
- ***Excepted quantities (EQ)***	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- ***UN "Model Regulation":***	UN 1760 CORROSIVE LIQUID, N.O.S. (4-NONYLPHENOL, BRANCHED), 8, II, 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.

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

CAS: 84852-15-3 | Nonylphenol

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

All components have the value ACTIVE.

- ***Hazardous Air Pollutants***

None of the ingredients is listed.

- ***Proposition 65***

- ***Chemicals known to cause cancer:***

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

- ***Carcinogenic categories***

- ***EPA (Environmental Protection Agency)***

None of the ingredients is listed.

- ***TLV (Threshold Limit Value)***

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

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Trade name: Vibra-TITE® Epoxy

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- ***Classification System:***
  - ***HMIS-ratings (scale 0 - 4)***

Health = *3
Fire = 1
Reactivity = 0

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

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
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
Eye Irritation 2B: Serious eye damage/eye irritation – Category 2B
Sensitization - Skin 1: Skin sensitisation – Category 1
Sensitization - Skin 1B: Skin sensitisation – Category 1B
Toxic to Reproduction 2: Reproductive toxicity – Category 2
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2

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

- ***Disclaimer***

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