



Safety Data Sheet

acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

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1 Identification

- Product identifier

- Trade name: Vibra-TITE®
 - Synonyms: VC-4
 - **Part number:** VT217
 - Application of the substance / the mixture Thread Locking

- Details of the supplier of the safety data sheet

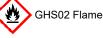
- *Manufacturer*/*Supplier:* ND Industries, Inc 1000 North Crooks Road Clawson, MI 48017 USA Telephone: +1-248-288-0000 Email: info@ndindustries.com Website: www.ndindustries.com

- 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



Flammable Liquids 2

H225 Highly flammable liquid and vapor.



Eye Irritation 2AH319 Causes serious eye irritation.Sensitization - Skin 1H317 May cause an allergic skin reaction.Specific Target Organ Toxicity - Single Exposure 3H336 May cause drowsiness or dizziness.

- Label elements

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



- Signal word Danger
- Hazard-determining components of labeling:
- ethyl acetate
- 2-Butenedioic acid (2Z)
- Hazard statements
- H225 Highly flammable liquid and vapor.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H336 May cause drowsiness or dizziness.
- Precautionary statements
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing must not be allowed out of the workplace.

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|----------------|---|--------------------|
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. | , |
| P280 | Wear protective gloves. | |
| P280 | Wear eye protection / face protection. | |
| 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. | • |
| P312 | Call a poison center/doctor if you feel unwell. | |
| 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. | |
| P403+P235 | Store in a well-ventilated place. Keep cool. | |
| P405 | Store locked up. | |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. | |
| horardo | | |

- 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.

| CAS: 141-78-6 | ethyl acetate | 60 – 69% |
|----------------|--|----------|
| | Flammable Liquids 2, H225; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336 | |
| CAS: 9003-63-8 | Acrylic Polymer | 10 – 19% |
| | Combustible Dust | |
| CAS: 110-16-7 | 2-Butenedioic acid (2Z) | ≤ 1% |
| | Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335 | |

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.

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

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 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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.
- No special precautions are necessary if used correctly.
- 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.
- Store in cool, dry conditions in well sealed receptacles.
- 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: 141-78-6 ethyl acetate

- PEL Long-term value: 1400 mg/m³, 400 ppm
- REL Long-term value: 1400 mg/m³, 400 ppm
- TLV Long-term value: 400 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.

- Avoid contact with the eyes and skin.
- Breathing equipment:
- Not required.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Nitrile rubber, NBR

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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.

Body protection: Protective work clothing

9 Physical and chemical properties - Information on basic physical and chemical properties General Information - Appearance: - Form: Viscous Color: Red - Odor: Characteristic - Odor threshold: Not determined. - pH-value: Not determined. - Change in condition - Melting point/Melting range: Undetermined. - Boiling point/Boiling range: ≥ 77 – ≤ 78 °C (≥ 170.6 – ≤ 172.4 °F) - Flash point: -1 °C (30.2 °F) - Flammability (solid, gaseous): Highly flammable. 410 °C (770 °F) - Auto igniting: - Decomposition temperature: Not determined. - Ignition temperature: Product is not selfigniting. - Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible. - Explosion limits: - Lower: 2.1 Vol % - Upper: 11.5 Vol % - Vapor pressure at 20 °C (68 °F): ≤ 97 hPa (≤ 72.8 mm Hg) - Vapor pressure at 50 °C (122 °F): ≤ 360 hPa (≤ 270 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: - Dvnamic: Not determined. - Kinematic: Not determined. - Solvent content: - Organic solvents: 65.8 % - VOC content: 65.77 % 657.7 g/l / 5.49 lb/gal - Solids content: 28.3 % - 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:

Aldehyde

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| ITaue Italii | | | (Contd. of page 4 | | | |
|---|---|--|---|--|--|--|
| Hydrocar | | | | | | |
| 11 I OXICO | iogical I | nformation | | | | |
| | | oxicological effects | | | | |
| | - Acute toxicity: | | | | | |
| - 1 | .D/LC50 | values that are relevant | for classification: | | | |
| | 1-78-6 ethy | • | | | | |
| Oral | LD50 | 5,620 mg/kg (rabbit) | | | | |
| | | 1,600 mg/l (rat) | | | | |
| | | utenedioic acid (2Z) | | | | |
| Oral | LD50 | 708 mg/kg (rat) | | | | |
| Dermal | LD50 | 1,560 mg/kg (rabbit) | | | | |
| - S - Add The Irrita | - on the - on the Sensitizat itional to product sho | ritant effect: skin: No irritant effect. eye: Irritating effect. tion: Sensitization possible t xicological information: bws the following dangers ac enic categories | | | | |
| | - | International Agency fo | r Research on Cancer) | | | |
| CAS: 10 | 3-88-3 tolu | | 3 | | | |
| | | utoxyethanol | 3 | | | |
| | - NTP (N | vational Toxicology Prog | gram) | | | |
| None of | | ents is listed. | y, any | | | |
| | • | | y & Health Administration) | | | |
| None of | | ents is listed. | y & Health Auministration) | | | |
| 12 Ecolog | - | | | | | |
| - Persista - Behavio - Bioa - Mob - Additio - Gen Wate Do n - Results - PBT - vPv | atic toxic ence and or in envi accumula ility in so nal ecolo eral note er hazard c ot allow un of PBT a ': Not appli B: Not appli | ironmental systems: htive potential No further re- bil No further relevant inform ogical information: s: lass 1 (Self-assessment): slig diluted product or large quan and vPvB assessment cable. | elevant information available. elevant information available. ation available. ghtly hazardous for water tities of it to reach ground water, water course or sewage system. | | | |
| 13 Dispos | al consi | derations | | | | |
| - Rec - Unclear | ommend ned pack | agings: | l of together with household garbage. Do not allow product to reach sewage system. | | | |
| - Rec | ommend | ation: Disposal must be ma | de according to official regulations. | | | |
| 14 Transp | ort into | mation | | | | |
| - UN-Nur - DOT | nber 7, IMDG, I | ΑΤΑ | UN1173 | | | |
| - DO1 | | ing name | Ethyl acetate | | | |

ETHYL ACETATE

- IMDG, IATA

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|---|--|---|--|
| | | Class(es) | |
| | | | |
| | | | |
| | 3 Flammable liquids 3 | | |
| | | | |
| | | | |
| | 3 Flammable liquids 3 | | |
| | II | ITA | |
| | No | nzards: nnt: | |
| | Warning: Flammable liquids 33 F-E,S-D B | ns for user ntification number (Kemler code): per: ategory | |
| | Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. | | |
| | | onal information: | |
| | On passenger aircraft/rail: On cargo aircraft only: 60 l | mitations | |
| | | | |
| per inner packaging: 30 ml per outer packaging: 500 ml | 1L Code: E2 Maximum net quantity per Maximum net quantity per | antities (LQ) quantities (EQ) | |
| II | UN 1173 ETHYL ACETATE, 3, II | ation": | |
| | | rmation | |
| or mixture | on specific for the substance or | d environmental regulations/legisla formation available. | |
| | es): | 355 (extremely hazardous substa | |
| | | nts is listed. | |
| | s): | 313 (Specific toxic chemical listin | |
| | | ne toxyethanol | |
| | | ic Substances Control Act): | |
| | | the value ACTIVE. | |
| | | ous Air Pollutants | |
| | | ne | |
| | | n 65 | |
| | | als known to cause cancer: | |
| | | nts is listed. | |
| | icity for females: | als known to cause reproductive t | |
| | icity for females: | | |

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|-----------------|--|-------------------|
| - Ch | emicals known to cause reproductive toxicity for males: | |
| None of the ing | redients is listed. | |
| - Ch | emicals known to cause developmental toxicity: | |
| CAS: 108-88-3 | toluene | |
| - Carcin | nogenic categories | |
| - EP | A (Environmental Protection Agency) | |
| CAS: 108-88-3 | toluene | |
| CAS: 111-76-2 | 2-butoxyethanol | NL |
| - TL | V (Threshold Limit Value) | |
| CAS: 108-88-3 | toluene | A4 |
| CAS: 111-76-2 | 2-butoxyethanol | A3 |
| - NIC | OSH-Ca (National Institute for Occupational Safety and Hea | lth) |
| None of the ind | redients is listed. | - |

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

EALTH 2 Health = 2 3 Fire = 3 REACTIVITY 0 Reactivity = 0

- NFPA ratings (scale 0 - 4)



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

Abbreviations and acronvms:

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 Flammable Liquids 2: Flammable liquids Category 2
- Acute Toxicity Oral 4: Acute toxicity Category 4 Skin Irritation 2: Skin corrosion/irritation Category 2

- Skin minitation 2: Skin conosionimation Category 2 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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