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# Safety Data Sheet according to HPR, Schedule 1

Printing date 01/29/2024 Reviewed on 01/23/2024

#### 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 identification

- Classification of the substance or mixture



Flammable Liquids - Category 2 H225 Highly flammable liquid and vapour.



Eye Irritation - Category 2A Skin Sensitizer - Category 1 H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure - Category 3 H336 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





CHS02 CHS07

- Signal word Danger

- Hazard-determining components of labeling:

ethyl acetate

2-Butenedioic acid (2Z)

- Hazard statements

H225 Highly flammable liquid and vapour.

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, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P242 Use non-sparking tools.

P243 Take actions to prevent static discharges.
P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

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(Contd. of page 1) P280 Wear protective gloves/protective clothing/eye protection/face protection. P280 Wear protective gloves P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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. Call a poison center/doctor if you feel unwell. P312 P362+P364 Take off contaminated clothing and wash it before reuse. 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. Store in a well-ventilated place. Keep container tightly closed.

P403+P233

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.

#### 3 Composition/Information on ingredients

#### - Chemical characterization: Mixtures

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

- Dangerous components:		
CAS: 141-78-6	ethyl acetate	45 – 70% w/w
	Flammable Liquids - Category 2, H225; Eye Irritation - Category 2A, H319; Specific Target Organ Toxicity - Single Exposure - Category 3, H336	
CAS: 9003-63-8	Acrylic Polymer	7 – 13% w/w
	Combustible Dusts - Category 1	
CAS: 110-16-7	2-Butenedioic acid (2Z)	0.1 – 1% w/w
	Acute Toxicity (Oral) - Category 4, H302; Acute Toxicity (Dermal) - Category 4, H312; Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317; Specific Target Organ Toxicity - Single Exposure - Category 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.

#### - 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.

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#### - 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:

At this time, the other constituents have no known exposure limits.

CAS: 141-78-	CAS: 141-78-6 ethyl acetate		
EL (Canada)	TWA: 150 ppm		
EV (Canada)	TWA: 1,440 mg/m³, 400 ppm		
PEL (USA)	TWA: 1400 mg/m³, 400 ppm		
REL (USA)	TWA: 1400 mg/m³, 400 ppm		
TLV (USA)	TWA: 400 ppm		

<sup>-</sup> 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:



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.

- Body protection: Protective work clothing

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# 9 Physical and chemical properties

- Injerear and enemied properties	
Information on basic physical and ch	emical properties
- General Information	
- Appearance:	
- Form:	Viscous
- Color:	Red
- Odor:	Characteristic
- Odor threshold:	Not determined.
- pH-value:	Not determined.
•	100 4000
- Change in condition	
- Melting point/Melting range:	Undetermined.
- Boiling point/Boiling range:	≥ 77 – ≤ 78 °C
- Flash point:	-1 °C
- Flammability (solid, gaseous):	Highly flammable.
- Auto igniting:	410 °C
- 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:	≤ 97 hPa
- Vapor pressure at 50 °C:	≤ 360 hPa
- Density:	Not determined.
- Relative density	Not determined.
- Vapor density	Not determined.
- Evaporation rate	Not determined.
·	
- Solubility in / Miscibility with - Water:	Not missible as difficult to mix
	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/wa	ter): Not determined.
- Viscosity:	
- Dynamic:	Not determined.
- Kinematic:	Not determined.
- Solvent content:	
- Organic solvents:	65.8 %
- VOC content:	65.77 %
. Co contont	657.7 g/l / 5.49 lb/gal
- Solids content:	28.3 %
Other information	No further relevant information available.
	140 fartifor followart 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

Hydrocarbons

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# 11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:

- <i>LI</i>	- LD/LC50 values that are relevant for classification:				
CAS: 141-78-6 ethyl acetate					
Oral	LD50	5,620 mg/kg (rabbit)			
Inhalative	LC50/4 h	1,600 mg/l (rat)			
CAS: 110-16-7 2-Butenedioic acid (2Z)					
Oral	LD50	708 mg/kg (rat)			
Dermal	LD50	1,560 mg/kg (rabbit)			

- Primary irritant effect:
  - on the skin: No irritant effect.
  - 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:

- Carcinogenic categories

3
3

#### 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.

- 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/TDG, ADR, IMDG, IATA	UN1173			
- UN proper shipping name - DOT/TDG - ADR - IMDG, IATA	Ethyl acetate UN1173 Ethyl acetate ETHYL ACETATE			

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# - Transport hazard class(es)

- DOT/TDG (Transport dangerous goods):



- Class 3 Flammable liquids

- Label

- ADR, IMDG, IATA



- **Class** 3 Flammable liquids

- Label

- Packing group

- DOT/TDG, ADR, IMDG, IATA

- Environmental hazards:

- Marine pollutant: No

- Special precautions for user Warning: Flammable liquids

- Hazard identification number (Kemler code): 33 - EMS Number: F-E,S-D - Stowage Category B

- Transport in bulk according to Annex II of MARPOL73/78

and the IBC Code Not applicable.

- Transport/Additional information:

- DOT/TDG

Quantity limitations
 On passenger aircraft/rail: 5 L
 On cargo aircraft only: 60 L

- ADR

- Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

- IMDG

- Limited quantities (LQ)

- 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 1173 ETHYL ACETATE, 3, II

### 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: 108-88-3 toluene

CAS: 111-76-2 2-butoxyethanol

- 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.

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- Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

- Canadian Ingredient Disclosure list (limit 1%)

CAS: 141-78-6 ethyl acetate

- 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)



2 Health = 2 Fire = 3

- NFPA ratings (scale 0 - 4)



Health = 2 Fire = 3 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 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

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