



Safety Data Sheet

according to HPR, Schedule 1

Printing date 01/29/2024

Reviewed on 01/29/2024

Page 1/7

1 Identification

- Product identifier

- Trade name: Vibra-TITE®
 - Synonyms: VC-5
 - **Part number:** VT218
 - 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.



Skin Sensitizer - Category 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



- Signal word Danger

- Hazard-determining components of labeling:
- 2-Butenedioic acid (2Z)
- Hazard statements
- H225 Highly flammable liquid and vapour.
- H317 May cause an allergic skin reaction.
- 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.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- 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.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Safety Data Sheet

according to HPR, Schedule 1

Printing date 01/29/2024

Trade name: Vibra-TITE®

Reviewed on 01/29/2024

		(Contd. of page 1)
P321	Specific treatment (see on this label).	
P370+P378	In case of fire: Use CO2, powder or water spray to extinguish.	
P403+P235	Store in a well-ventilated place. Keep cool.	
P501	Dispose of contents/container in accordance with local/regional/national/international regulation	S.

3 Composition/Information on ingredients

- Chemical characterization: Mixtures

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

- Dangerous	s components:	
CAS: 107-87-9	Methyl propyl ketone	45 – 70% w/w
	Flammable Liquids - Category 2, H225; Acute Toxicity (Oral) - Category 4, H302	
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.

- 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.
 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

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.

Safety Data Sheet

according to HPR, Schedule 1

Printing date 01/29/2024

Trade name: Vibra-TITE®

(Contd. of page 2)

Reviewed on 01/29/2024

- 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: 107-87-9 Methyl propyl ketone

EL (Canada)	STEL: 250 ppm
	TWA: 150 ppm
EV (Canada)	STEL: 150 ppm
PEL (USA)	TWA: 700 mg/m ³ , 200 ppm
REL (USA)	TWA: 530 mg/m³, 150 ppm
TINGAN	

TLV (USA) STEL: 150 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: Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

- 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

- 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. - **Eye protection:**



Tightly sealed goggles

- Body protection: Protective work clothing

9 Physical and chemical properties

- Information on basic physical and cl	nemical properties
- General Information	
- Appearance:	
- Form:	Viscous
- Color:	Red
- Odor:	Characteristic

(Contd. of page 3)

Safety Data Sheet according to HPR, Schedule 1

Printing date 01/29/2024

Trade name: Vibra-TITE®

Reviewed on 01/29/2024

	(Contd. of p
- Odor threshold:	Not determined.
- pH-value:	Not determined.
- Change in condition - Melting point/Melting range: - Boiling point/Boiling range:	Undetermined. ≥ 101.7 °C
- Flash point:	7 °C
- Flammability (solid, gaseous):	Highly flammable.
- Auto igniting:	505 °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: - Upper:	1.5 Vol % 8.2 Vol %
- Vapor pressure at 20 °C: - Vapor pressure at 50 °C:	≤ 16 hPa ≤ 92 hPa
- Density: - Relative density - Vapor density - Evaporation rate	Not determined. Not determined. Not determined. Not determined.
- Solubility in / Miscibility with - Water:	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/wa	ater): Not determined.
- Viscosity: - Dynamic: - Kinematic:	Not determined. Not determined.
- Solvent content: - Organic solvents: - VOC content:	68.0 % 68.02 % 680.2 g/l / 5.68 lb/gal
- Solids content:	27.1 %
ther 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

Hydrocarbons

11 Toxicological information

- Information on toxicological effects

- Acute toxicity:

- LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)	
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Oral LD50 2,353 mg/kg (rat)

CAS: 107-87-9 Methyl propyl ketone

Oral	LD50	1,600 mg/kg (rat)
Dermal	LD50	6,500 mg/kg (rabbit)

(Contd. of page 4)

Safety Data Sheet according to HPR, Schedule 1

Printing date 01/29/2024

Trade name: Vibra-TITE®

Reviewed on 01/29/2024

	(Contd. of page 4
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: No irritating effect.	
 Sensitization: Sensitization possible through skin contact. 	
- Additional toxicological information:	
The product shows the following dangers according to internally approved calculation methods for prepara Irritant	ions:
- Carcinogenic categories	
- IARC (International Agency for Research on Cancer)	
CAS: 108-88-3 toluene	3
CAS: 111-76-2 2-butoxyethanol	3
- NTP (National Toxicology Program)	
None of the ingredients is listed.	
12 Ecological information	

- 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	UN1139	
- UN proper shipping name - DOT/TDG - ADR - IMDG, IATA	Coating solution UN1139 Coating solution COATING SOLUTION	
- Transport hazard class(es) - DOT/TDG (Transport dangerous goods):		
- Class - Label	3 Flammable liquids 3	

(Contd. on page 6)

Safety Data Sheet according to HPR, Schedule 1

Printing date 01/29/2024

Trade name: Vibra-TITE®

(Contd. of page 5)

- ADR, IMDG, IATA	
- Class - Label	3 Flammable liquids 3
Packing group - DOT/TDG, ADR, IMDG, IATA	I
Environmental hazards: - Marine pollutant:	No
Special precautions for user - Hazard identification number (Kemler code): - EMS Number: - Stowage Category	Warning: Flammable liquids 33 F-E, <u>S-E</u> E
Transport in bulk according to Annex II of MARPOL7 and the IBC Code	73/78 Not applicable.
Transport/Additional information:	
- DOT/TDG	
- Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 30 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)	500 ml Code: E3 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 300 ml
	UN 1139 COATING SOLUTION, 3, II

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

- Se	ection 355 (extremely hazardous substances):
None of the in	gredients is listed.
- Se	ection 313 (Specific toxic chemical listings):
CAS: 108-88-3	3 toluene
CAS: 111-76-2	2 2-butoxyethanol
- TSCA	A (Toxic Substances Control Act):
All component	is have the value ACTIVE.
- Cana	dian substance listings:
- Ca	anadian Domestic Substances List (DSL)
All ingredients	are listed.
- C	anadian Non-Domestic Substances List (NDSL)
None of the in	gredients is listed.
- Ca	anadian Ingredient Disclosure list (limit 0.1%)
None of the in	gredients is listed.
- Ca	anadian Ingredient Disclosure list (limit 1%)
CAS: 107-87-9	9 Methyl propyl ketone

Safety Data Sheet according to HPR, Schedule 1

Printing date 01/29/2024

Trade name: Vibra-TITE®

(Contd. of page 6)

Reviewed on 01/29/2024

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

HEALTH1Health = 1FIRE3Fire = 3REACTIVITY0Reactivity = 0

- NFPA ratings (scale 0 - 4)



- 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

- Disclaimer

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