

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 09/25/2025

Reviewed on 09/25/2025

1 Identification

- Product identifier

- **Trade name:** Vibra-TITE® VC-3®

- **Synonyms:** VC-3 Threadmate

- Other means of identification

- **Part number:** VT213

- **Application of the substance / the mixture**

Thread Locking

Thread locking and sealing

- 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



GHS02 Flame

Flammable liquids 2

H225 Highly flammable liquid and vapor.



GHS07

Eye irritation 2A

H319 Causes serious eye irritation.

Specific target organ toxicity (single exposure) 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



GHS02 GHS07

- **Signal word** Danger

- Hazard-determining components of labeling:

methyl ethyl ketone

- Hazard statements

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

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 / bond container and receiving equipment.

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

P242 Use non-sparking tools.

P243 Take action to prevent static discharge.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P280	Wear eye protection / face protection.
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.
P312	Call a poison center/doctor if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use CO ₂ , powder or water spray to extinguish.
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.

- Other hazards

- Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

- Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

- Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

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

- Dangerous components:

CAS: 78-93-3	methyl ethyl ketone	30 – 60%
	Flammable liquids 2, H225; Eye irritation 2A, H319; Specific target organ toxicity (single exposure) 3, H336	
CAS: 28262-63-7	Acrylic Resin	15 – 40%
	Combustible Dust	

4 First-aid measures

- Description of first aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **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.
- **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.

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See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- 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

- 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 remaining constituent has no known exposure limits.

CAS: 78-93-3 methyl ethyl ketone

PEL Long-term value: 590 mg/m³, 200 ppm

REL Short-term value: 885 mg/m³, 300 ppm

Long-term value: 590 mg/m³, 200 ppm

TLV Short-term value: 150 ppm

Long-term value: 75 ppm

BEI, Skin

- Ingredients with biological limit values:

CAS: 78-93-3 methyl ethyl ketone

BEI 2 mg/L

Medium: urine

Time: end of shift

Parameter: Methyl ethyl ketone (nonspecific)

- **Additional information:** The lists that were valid during the creation were used as basis.

- Exposure controls

- **Appropriate engineering controls** No further data; see section 7.

- 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

- 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

- Information on basic physical and chemical properties

- General Information

- Physical state	Liquid
- Color:	Red
- Odor:	Solvent-like
- Odor threshold:	Not determined.
- Melting point/Melting range:	Undetermined.
- Boiling point/Boiling range:	$\geq 79 - \leq 80.5$ °C ($\geq 174.2 - \leq 176.9$ °F)
- Flammability:	Highly flammable.
- Explosion limits:	
- Lower:	1.8 Vol %
- Upper:	11.5 Vol %
- Flash point:	≥ -4 °C (≥ 24.8 °F)
- Auto igniting:	410 °C (770 °F)
- Decomposition temperature:	Not determined.
- pH-value:	Not determined.
- Viscosity:	
- Kinematic at 40 °C (104 °F):	250 mm ² /s
- Dynamic:	Not determined.
- Solubility in / Miscibility with	
- Water:	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/water):	Not determined.
- Vapor pressure at 20 °C (68 °F):	≤ 105 hPa (≤ 78.8 mm Hg)
- Vapor pressure:	
- Density at 20 °C (68 °F):	~ 0.904 g/cm ³ (~ 7.54388 lbs/gal)
- Relative density	Not determined.
- Vapor density	Not determined.
- Particle characteristics	Not applicable.

- Other information

- Appearance:	
- Form:	Viscous
- Important information on protection of health and environment, and on safety.	
- Ignition temperature:	Product is not selfigniting.
- Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
- Solvent content:	
- Organic solvents:	57.2 %
- VOC content:	57.23 %
	~ 517.4 g/l / ~ 4.32 lb/gal
- Solids content:	35.3 %
- Change in condition	
- Evaporation rate	Not determined.

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:

- LD/LC50 values that are relevant for classification:

CAS: 78-93-3 methyl ethyl ketone

Oral LD50 3,300 mg/kg (rat)

Dermal LD50 5,000 mg/kg (rabbit)

- Primary irritant effect:

- **on the skin:** No irritant effect.- **on the eye:** Irritating effect.- **Sensitization:** No sensitizing effects known.

- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

- **Interactive effects** No interactive effects between components are known.

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)

CAS: 111-76-2 2-butoxyethanol

3

- NTP (National Toxicology Program)

None of the ingredients is listed.

- OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

- **Alternative sources for toxicological information** No non-standard sources for toxicological information where used.

12 Ecological information

- Toxicity

- **Aquatic toxicity:** No further relevant information available.- **Persistence and degradability** No further relevant information available.- **Bioaccumulative potential** No further relevant information available.- **Mobility in soil** No further relevant information available.

- Results of PBT and vPvB assessment

- **PBT:** Not applicable.- **vPvB:** Not applicable.

- Other adverse effects

- 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.

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

UN1139

- UN proper shipping name

- DOT

Coating solution

- IMDG, IATA

COATING SOLUTION

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- Transport hazard class(es)	
- DOT	
	
- Class	3 Flammable liquids
- Label	3
- IMDG, IATA	
	
- Class	3 Flammable liquids
- Label	3
- Packing group	
- DOT, IMDG, IATA	II
- Environmental hazards:	
- Marine pollutant:	No
- 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: 5 L On cargo aircraft only: 60 L
- IMDG	
- Limited quantities (LQ)	5L
- Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- Special precautions for user	
- Hazard identification number (Kemler code):	Warning: Flammable liquids 33
- EMS Number:	F-E,S-E
- Stowage Category	B
- UN "Model Regulation":	
	UN 1139 COATING SOLUTION, 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: 111-76-2 | 2-butoxyethanol

- 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.

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- Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- Carcinogenic categories

- EPA (Environmental Protection Agency)

CAS: 78-93-3 methyl ethyl ketone

I

CAS: 111-76-2 2-butoxyethanol

NL

- TLV (Threshold Limit Value)

CAS: 111-76-2 2-butoxyethanol

A3

- 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 Affairs

- **Contact:** Safety, Health and Environmental Affairs

- Classification System:

- HMIS-ratings (scale 0 - 4)

HEALTH	2	Health = 2
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

- NFPA ratings (scale 0 - 4)

2	3	0	Health = 2
			Fire = 3
			Reactivity = 0

- **Date of previous version** 09/12/2025

- **Version number of previous version:** 65

- **Date of preparation** 09/25/2025

- 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

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flammable liquids 2: Flammable liquids – Category 2

Eye irritation 2A: Serious eye damage/eye irritation – Category 2A

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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