

Safety Data Sheet
acc. to OSHA HCS

Date of issue: 04/04/2025

Reviewed on 04/04/2025

1 Identification

- Product identifier

- **Trade name:** Vibra-TITE® Threadlocker

- **Synonyms:** S137 High Temp / High Strength Threadlocker Stick

- Other means of identification

- **Part number:** VTS137

- **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



GHS08 Health hazard

Carcinogenicity 2

H351 Suspected of causing cancer.

Specific target organ toxicity (repeated exposure) 2

H373 May cause damage to organs through prolonged or repeated exposure.



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.

- Label elements

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

- Hazard pictograms



GHS07 GHS08

- **Signal word** Warning

- Hazard-determining components of labeling:

(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate
dimethylbenzyl hydroperoxide
Cumene
1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione
methacrylic acid, monoester with propane-1,2-diol
2-Butenedioic acid (2Z)
2'-phenylacetohydrazide

- Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
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.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
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/hearing protection.
P280	Wear protective gloves.
P280	Wear eye protection / face protection.
P302+P352	If on skin: Wash with plenty of water.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
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.
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: 24448-20-2	(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate Skin irritation 2, H315; Eye irritation 2A, H319; Sensitization - skin 1B, H317	45 – 70%
CAS: 3006-93-7	1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione Acute toxicity - inhalation 1, H330; Acute toxicity - oral 4, H302; Sensitization - skin 1A, H317	7 – 13%
CAS: 27813-02-1	methacrylic acid, monoester with propane-1,2-diol Eye irritation 2A, H319; Sensitization - skin 1, H317	5 – 10%
CAS: 80-15-9	dimethylbenzyl hydroperoxide Self-reactive substances and mixtures - Type F, H242; Organic peroxides - Type E, H242; Acute toxicity - inhalation 3, H331; Specific target organ toxicity (repeated exposure) 2, H373; Aspiration hazard 1, H304; Skin corrosion 1B, H314; Eye damage 1, H318; Acute toxicity - oral 4, H302; Acute toxicity - dermal 4, H312; Specific target organ toxicity (single exposure) 3, H335; Flammable liquids 4, H227	0.5 – 1.5%
CAS: 110-16-7	2-Butenedioic acid (Z)	0.1 – 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	
CAS: 98-82-8	Cumene Flammable liquids 3, H226; Carcinogenicity 2, H351; Aspiration hazard 1, H304; Acute toxicity - oral 4, H302; Specific target organ toxicity (single exposure) 3, H335	0.1 – 1%
CAS: 114-83-0	2'-phenylacetohydrazide Acute toxicity - oral 4, H302; Skin irritation 2, H315; Eye irritation 2A, H319; Sensitization - skin 1, H317; Specific target organ toxicity (single exposure) 3, H335	0.1 – 1%

4 First-aid measures

- Description of first aid measures**- General information:**

Immediately remove any clothing soiled by the product.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

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- **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.
- **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:**
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**
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:**
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

- **Precautions for safe handling**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
No special precautions are necessary if used correctly.
 - **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **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:**
At this time, the other constituents have no known exposure limits.

CAS: 80-15-9 dimethylbenzyl hydroperoxide	
WEEL	Long-term value: 6 mg/m ³ , 1 ppm Skin
CAS: 98-82-8 Cumene	
PEL	Long-term value: 245 mg/m ³ , 50 ppm Skin
REL	Long-term value: 245 mg/m ³ , 50 ppm Skin
TLV	Long-term value: 25 mg/m ³ , 5 ppm A3

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

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- 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.
- Store protective clothing separately.
- 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.

- Eye protection: Required use of safety glasses**- Body protection:** Protective work clothing

* 9 Physical and chemical properties

- Information on basic physical and chemical properties**- General Information**

- | | |
|---|---------------------|
| - Physical state | Solid |
| - Color: | Red |
| - Odor: | Mild |
| - Odor threshold: | Not determined. |
| - Melting point/Melting range: | Undetermined. |
| - Boiling point/Boiling range: | ≥ 170 °C (≥ 338 °F) |
| - Flammability: | Not determined. |
| - Explosion limits: | |
| - Lower: | Not determined. |
| - Upper: | Not determined. |
| - Flash point: | ≥ 95 °C (≥ 203 °F) |
| - Decomposition temperature: | Not determined. |
| - pH-value: | Not applicable. |
| - Viscosity: | |
| - Kinematic: | Not applicable. |
| - Dynamic: | Not applicable. |
| - Solubility in / Miscibility with | |
| - Water: | Soluble. |
| - Partition coefficient (n-octanol/water): | Not determined. |
| - Vapor pressure: | Not applicable. |
| - Vapor pressure: | |
| - Density: | Not determined. |
| - Relative density | Not determined. |
| - Vapor density | Not applicable. |
| - Particle characteristics | Not determined. |

- Other information**- Appearance:****- Form:** Pasty

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- Important information on protection of health and environment, and on safety.

- Ignition temperature:	Product is not selfigniting.
- Danger of explosion:	Product does not present an explosion hazard.
- Solvent content:	
- Organic solvents:	1.0 %
- Water:	0.3 %
- VOC content:	0.97 %
- Solids content:	100.0 %
- Change in condition	
- Evaporation rate	Not applicable.

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)

Oral	LD50	3,670 mg/kg
Dermal	LD50	42,669 mg/kg (rat)
Inhalative	LC50/4 h	0.0414 mg/l

CAS: 3006-93-7 1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione

Oral	LD50	500 mg/kg (ATE)
Inhalative	LC50/4 h	0.005 mg/l (ATE)

CAS: 80-15-9 dimethylbenzyl hydroperoxide

Oral	LD50	382 mg/kg (rat)
Dermal	LD50	500 mg/kg (rat)
Inhalative	LC50/4 h	220 mg/l (rat)

CAS: 110-16-7 2-Butenedioic acid (Z)

Oral	LD50	708 mg/kg (rat)
Dermal	LD50	1,560 mg/kg (rabbit)

CAS: 98-82-8 Cumene

Oral	LD50	1,400 mg/kg (rat)
Dermal	LD50	12,300 mg/kg (rabbit)
Inhalative	LC50/4 h	24.7 mg/l (mouse)

CAS: 114-83-0 2'-phenylacetohydrazide

Oral	LD50	270 mg/kg (mouse)
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- 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

Very toxic

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

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)

CAS: 98-82-8	Cumene
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CAS: 7631-86-9	Silicon dioxide, Untreated fumed	3
- NTP (National Toxicology Program)		
CAS: 98-82-8	Cumene	R
CAS: 130-15-4	1,4-naphthoquinone	R
- 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 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger of drinking water if even extremely small quantities leak into the ground.

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.
 - **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- UN-Number	
- DOT, IMDG, IATA	not regulated
- UN proper shipping name	
- DOT, IMDG, IATA	not regulated
- Transport hazard class(es)	
- DOT, ADN, IMDG, IATA	
- Class	not regulated
- Packing group	
- DOT, IMDG, IATA	not regulated
- Environmental hazards:	Not applicable.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
- Special precautions for user	Not applicable.
- UN "Model Regulation":	not regulated

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: 80-15-9 dimethylbenzyl hydroperoxide

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CAS: 98-82-8	Cumene	
- TSCA (Toxic Substances Control Act):		
(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediy)l bismethacrylate		ACTIVE
1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione		ACTIVE
methacrylic acid, monoester with propane-1,2-diol		ACTIVE
Silicon dioxide, amorphous		ACTIVE
dimethylbenzyl hydroperoxide		ACTIVE
propane-1,2-diol		ACTIVE
2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate		ACTIVE
Deionized water		ACTIVE
2-Butenedioic acid (2Z)		ACTIVE
Saccharin		ACTIVE
Cumene		ACTIVE
2'-phenylacetohydrazide		ACTIVE
tetrasodium ethylenediaminetetraacetate		ACTIVE
2-Phenyl-2-propanol		ACTIVE
2,5-thiophenediylbis(5-tert-butyl-1,3-benzoxazole)		ACTIVE
n-butyl-4,4-di(tert-butylperoxy)-valerate (not more than 52%, and inert solid not less than 48%)		ACTIVE
calcium carbonate		ACTIVE
N-isopropylhydroxylamine		ACTIVE
Coloring Agent		ACTIVE
Silicon dioxide, Untreated fumed		ACTIVE
Amorphous Silica		ACTIVE
1,4-naphthoquinone		ACTIVE
1-hydroxyethane-1,1-diylbis(phosphonic acid)		ACTIVE
2-Propanone, oxime		ACTIVE
phosphorous acid		ACTIVE

- Hazardous Air Pollutants

CAS: 98-82-8 Cumene

CAS: 130-15-4 1,4-naphthoquinone

- Proposition 65**- Chemicals known to cause cancer:**

CAS: 98-82-8 Cumene

- 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)**

CAS: 98-82-8 Cumene

D, CBD

- 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 Affairs

- Contact: Safety, Health and Environmental Affairs

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- Classification System:

- HMIS-ratings (scale 0 - 4)

HEALTH	4	Health = *4
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

- NFPA ratings (scale 0 - 4)

4	1	0	Health = 4
			Fire = 1
			Reactivity = 0

- **Date of previous version** 01/03/2025

- **Version number of previous version:** 4

- **Date of preparation** 04/04/2025

- 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
 Flammable liquids 3: Flammable liquids – Category 3
 Flammable liquids 4: Flammable liquids – Category 4
 Self-reactive substances and mixtures - Type F: Self-reactive substances and mixtures – Type E/F
 Organic peroxides - Type E: Organic peroxides – Type E/F
 Acute toxicity - oral 4: Acute toxicity – Category 4
 Acute toxicity - inhalation 1: Acute toxicity – Category 1
 Acute toxicity - inhalation 3: Acute toxicity – Category 3
 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
 Sensitization - skin 1: Skin sensitisation – Category 1
 Sensitization - skin 1A: Skin sensitisation – Category 1A
 Sensitization - skin 1B: Skin sensitisation – Category 1B
 Carcinogenicity 2: Carcinogenicity – Category 2
 Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3
 Specific target organ toxicity (repeated exposure) 2: Specific target organ toxicity (repeated exposure) – Category 2
 Aspiration hazard 1: Aspiration hazard – Category 1

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

- Disclaimer

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