



Safety Data Sheet

according to HPR, Schedule 1

Printing date 01/29/2024

Reviewed on 01/29/2024

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1 Identification

- Product identifier

- Trade name: Vibra-TITE® Threadlocker
 - Synonyms: 123 Medium Strength Hi-Temp Oil Tolerant Threadlocker
 - Part number: VT123
 - 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



Carcinogenicity - Category 2 H351 Suspected of causing cancer.



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 Warning

- Hazard-determining components of labeling:

Diacrylate Proprietary 1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione Cumene methacrylic acid, monoester with propane-1,2-diol 2'-phenylacetohydrazide

- Hazard statements

- H317 May cause an allergic skin reaction.
- H351 Suspected of causing cancer.

- Precautionary statements

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- 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.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

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- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P321 Specific treatment (see on this label).
- 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.

0	components:	
CAS: 42594-17-2		10 – 30% w/w
	Skin Sensitizer - Category 1, H317	
CAS: 3006-93-7	1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione	3 – 7% w/w
	Acute Toxicity (Inhalation) - Category 1, H330; Acute Toxicity (Oral) - Category 4, H302; Skin Sensitizer - Category 1A, H317	
CAS: 27813-02-1	methacrylic acid, monoester with propane-1,2-diol	1 – 5% w/w
	Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317	
	Silicone acrylate	1 – 5% w/w
	Skin Irritation - Category 2, H315; Flammable Liquids - Category 4, H227; Eye Irritation - Category 2B, H320	_
CAS: 57-55-6	propane-1,2-diol	0.5 – 1.5% w/w
	Acute Toxicity (Oral) - Category 4, H302	
CAS: 80-15-9	dimethylbenzyl hydroperoxide	0.1 – 1% w/w
	Self-reactive Substances and Mixtures – Type F, H242; Organic Peroxides – Type E, H242; Acute Toxicity (Inhalation) - Category 3, H331; Specific Target Organ Toxicity - Repeated Exposure - Category 2, H373; Aspiration Hazard - Category 1, H304; Skin Corrosion - Category 1B, H314; Serious Eye Damage - Category 1, H318; Acute Toxicity (Oral) - Category 4, H302; Acute Toxicity (Dermal) – Category 4, H312; Specific Target Organ Toxicity - Single Exposure - Category 3, H335; Flammable Liquids - Category 4, H227	
CAS: 114-83-0	2'-phenylacetohydrazide Acute Toxicity (Oral) - Category 4, H302; Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	0.1 – 1% w/w
	Proprietary	0.1 – 1% w/w
	Carcinogenicity – Category 2, H351; Aspiration Hazard - Category 1, H304; Specific Target Organ Toxicity - Single Exposure - Category 3, H336	-
CAS: 98-82-8	Cumene	≤ 0.1% w/w
	Flammable Liquids - Category 3, H226; Carcinogenicity – Category 2, H351; Aspiration Hazard - Category 1, H304; Acute Toxicity (Oral) - Category 4, H302; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	_

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.

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.
- 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: Use fire fighting measures that suit the environment.

- Special hazards arising from the substance or mixture No further relevant information available.

- Advice for firefighters

- Protective equipment:

Mouth respiratory protective device.

⁻ After inhalation:

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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: Inform respective authorities in case of seepage into water course or sewage system. 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). 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

- Handling:

- Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols. 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

- 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 constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

CAS: 57-55-6 propane-1,2-diol		
EV (Canada)	TWA: 155* 10** mg/m³, 50* ppm *vapour and aerosol;**aerosol only	
WEEL (USA)	TWA: 10 mg/m ³	
CAS: 80-15-9	dimethylbenzyl hydroperoxide	
WEEL (USA)	TWA: 6 mg/m³, 1 ppm Skin	
CAS: 98-82-8	Cumene	
EL (Canada)	STEL: 75 ppm TWA: 25 ppm IARC 2B	
EV (Canada)	TWA: 245 mg/m³, 50 ppm Skin	
PEL (USA)	TWA: 245 mg/m³, 50 ppm Skin	
REL (USA)	TWA: 245 mg/m³, 50 ppm Skin	
TLV (USA)	TWA: 5 ppm A3	

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- Exposure controls

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- Personal protective equipment:

General protective and hygienic measures:

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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. 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 Nitrile rubber, NBR - Penetration time of glove material - Eye protection: Required use of safety glasses - Body protection: Protective work clothing 9 Physical and chemical properties

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.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Information on basic physical and che - General Information	emical properties
- Appearance:	
- Form:	Fluid
- Color:	Blue
- Odor:	Characteristic
- Odor threshold:	Not determined.
- pH-value:	Not determined.
- Change in condition	
 Melting point/Melting range: 	Undetermined.
 Boiling point/Boiling range: 	Undetermined.
- Flash point:	208 °C
- Flammability (solid, gaseous):	Not applicable.
- Decomposition temperature:	Not determined.
- Ignition temperature:	Product is not selfigniting.
- Danger of explosion:	Product does not present an explosion hazard.
- Explosion limits:	
- Lower:	Not determined.
- Upper:	Not determined.
- Vapor pressure:	Not determined.
- 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.

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- Viscosity:		
- Dynamic:	Not determined.	
- Kinematic:	Not determined.	
- Solvent content:		
 Organic solvents: 	1.5 %	
- Water:	0.5 %	
- VOC content:	1.50 %	
	15.0 g/l / 0.13 lb/gal	
- Solids content:	10.5 %	
- 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
- Hydrocarbons

11 Toxicological information

- Information on toxicological effects

- Acute toxicity:

	eloxicity	
- LL	D/LC50 va	alues that are relevant for classification:
ATE (Acut	te Toxicity	v Estimate)
Oral	LD50	9,022 mg/kg
Inhalative	LC50/4 h	26,190 mg/l (rat)
CAS: 3006	6-93-7 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: 57-5	5-6 propa	ne-1,2-diol
Oral	LD50	2,000 mg/kg (rat)
Dermal	LD50	20,800 mg/kg (rabbit)
CAS: 80-1	5-9 dimet	hylbenzyl hydroperoxide
Oral	LD50	382 mg/kg (rat)
Dermal	LD50	500 mg/kg (rat)
Inhalative	LC50/4 h	220 mg/l (rat)
CAS: 114-	-83-0 2'-ph	enylacetohydrazide
Oral	LD50	270 mg/kg (mouse)
Proprieta	ry	
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
CAS: 98-8	2-8 Cume	ne
Oral	LD50	1,400 mg/kg (rat)
Dermal	LD50	12,300 mg/kg (rabbit)
Inhalative	LC50/4 h	24.7 mg/l (mouse)
- Pi	rimary irr	itant 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:

Toxic Irritant

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	nogenic categories RC (International Agency t	for Possarch on Cancor
	Polytetrafluoroethylene	Tor Research on Cancery
CAS: 98-82-8	Cumene	
	9 Silicon dioxide, Untreated fur	
- NT	P (National Toxicology Pr	rogram)
	Cumene	
CAS: 130-15-4	1,4-naphthoquinone	
2 Ecological i	nformation	
 Persistence a Behavior in e Bioaccum Mobility in Ecotoxical ef Remark: 1 Additional ec General n Water haza Do not allow Also poison Toxic for aq Results of PE PBT: Not a vPvB: Not 	environmental systems: nulative potential No further n soil No further relevant infor ffects: Toxic for fish cological information: notes: urd class 1 (Self-assessment): s w undiluted product or large qua nous for fish and plankton in wa quatic organisms BT and vPvB assessment applicable.	er relevant information available. rr relevant information available. rmation available. slightly hazardous for water uantities of it to reach ground water, water course or sewage system. ater bodies.
3 Disposal co		
- Waste treatm - Recomme		sed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned pa - Recomme		made according to official regulations.
4 Transport ir	nformation	
- UN-Number - DOT/TDG,	, ADR, IMDG, IATA	not regulated
- UN proper sh - DOT/TDG,	nipping name , ADR, IMDG, IATA	not regulated
- Transport ha	zard class(es)	
- DOT/TDG,	, ADR, ADN, IMDG, IATA	not regulated
- Class		
- Packing grou	ıp , ADR, IMDG, IATA	not regulated
- Packing grou	, ADR, IMDG, IATA al hazards:	not regulated
- Packing grou - DOT/TDG, - Environment - Marine po	, ADR, IMDG, IATA al hazards:	

- UN "Model Regulation": 15 Regulatory information

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

not regulated

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- Se	ection 355 (extremely hazardous substances):	
	gredients is listed.	
	ection 313 (Specific toxic chemical listings):	
	dimethylbenzyl hydroperoxide	
CAS: 98-82-8		
	acetophenone	
	(Toxic Substances Control Act):	
Diacrylate	i (Toxic Substances Control Act).	ACTIV
•	ylene)bis-1H-pyrrole-2,5-dione	ACTIV
	id, monoester with propane-1,2-diol	ACTIV
Polytetrafluoro		ACTIV
Silicone acryla	•	ACTIV
		ACTIV
propane-1,2-diol Silicon dioxide, amorphous		ACTIV
	l hydroperoxide	ACTIV
Deionized wat		ACTIV
	p-2-enoyloxy)ethyl 2-methylprop-2-enoate	ACTIV
Saccharin		ACTIV
2'-phenylaceto	hvdrazide	ACTIV
Proprietary		ACTIV
	hylenediaminetetraacetate	ACTIV
Cumene		ACTIV
N-isopropylhyd	droxylamine	ACTIV
2,5-thiopheneo	diylbis(5-tert-butyl-1,3-benzoxazole)	ACTIV
n-butyl-4,4-di(t	ert-butylperoxy)-valerate (not more than 52%, and inert solid not less than 48%)	ACTIV
calcium carboi	nate	ACTIV
acetophenone		ACTIV
2-Phenyl-2-pro	panol	ACTIV
1,4-naphthoqu	inone	ACTIV
Silicon dioxide	, Untreated fumed	ACTIV
	ne-1,1-diylbis(phosphonic acid)	ACTIV
2-Propanone,		ACTIV
phosphorous a	acid	ACTIV

CAS: 42594-17-2	Diacrylate
CAS: 3006-93-7	1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione
CAS: 27813-02-1	methacrylic acid, monoester with propane-1,2-diol
CAS: 9002-84-0	Polytetrafluoroethylene
CAS: 57-55-6	propane-1,2-diol
CAS: 112945-52-5	Silicon dioxide, amorphous
CAS: 80-15-9	dimethylbenzyl hydroperoxide
CAS: 7732-18-5	Deionized water
CAS: 25852-47-5	2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate
CAS: 128-44-9	Saccharin
CAS: 114-83-0	2'-phenylacetohydrazide
CAS: 64-02-8	tetrasodium ethylenediaminetetraacetate
CAS: 98-82-8	Cumene
CAS: 5080-22-8	N-isopropylhydroxylamine
CAS: 7128-64-5	2,5-thiophenediylbis(5-tert-butyl-1,3-benzoxazole)
CAS: 995-33-5	n-butyl-4,4-di(tert-butylperoxy)-valerate (not more than 52%, and inert solid not less than 48%)
CAS: 471-34-1	calcium carbonate
CAS: 98-86-2	acetophenone
CAS: 617-94-7	2-Phenyl-2-propanol
CAS: 130-15-4	1,4-naphthoquinone
CAS: 7631-86-9	Silicon dioxide, Untreated fumed

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CAS: 2809-21-4 1-hydroxyethane-1,1-diylbis(phosphonic acid)	
CAS: 13598-36-2 phosphorous acid	
- Canadian Non-Domestic Substances List (NDSL)	
CAS: 127-06-0 2-Propanone, oxime	
- Canadian Ingredient Disclosure list (limit 0.1%)	
None of the ingredients is listed.	
- Canadian Ingredient Disclosure list (limit 1%)	
CAS: 57-55-6 propane-1,2-diol	

- 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)



- 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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