



Page 1/8

Safety Data Sheet according to HPR, Schedule 1

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

1 Identification

- Product identifier

- Trade name: Vibra-TITE® Thread Sealant

- Synonyms: 427 Medium Strength - Stainless Steel Thread Sealant

- Part number: VT427

- Application of the substance / the mixture

Sealing Sealant

- 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



GHS08 Health hazard

Carcinogenicity – Category 2 H351 Suspected of causing cancer.



Skin Sensitizer - Category 1

Serious Eye Damage - Category 1 H318 Causes serious eye damage.



Skin Irritation - Category 2

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure - Category 3 H335 May cause respiratory irritation.

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:

4-hydroxybutyl acrylate Polyether Urethane Methacrylate Cumene Urethane methacrylate 2-Butenedioic acid (2Z)

2'-phenylacetohydrazide

- Hazard statements

H315 Causes skin irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction.

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

Trade name: Vibra-TITE® Thread Sealant

(Contd. of page 1)

H351 Suspected of causing cancer. H335 May cause respiratory irritation.

- Precautionary statements

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.

P264 Wash thoroughly after handling.

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

P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection.

Wear protective gloves. P280

P302+P352 If on skin: Wash with plenty of water.

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.

P310 Immediately call a poison center/doctor.

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

Specific treatment (see on this label). P321

P312 Call a poison center/doctor 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. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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	s components:	
	Polyether Urethane Methacrylate Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1B, H317; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	10 – 30% w/w
	Urethane methacrylate Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317	10 – 30% w/v
CAS: 2478-10-6	4-hydroxybutyl acrylate Serious Eye Damage - Category 1, H318; Acute Toxicity (Oral) - Category 4, H302; Skin Irritation - Category 2, H315; Skin Sensitizer - Category 1, H317; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	5 – 10% w/w
	Acrylic polymer Combustible Dusts - Category 1	5 – 10% w/w
CAS: 79-10-7	acrylic acid Flammable Liquids - Category 3, H226; Skin Corrosion - Category 1A, H314; Serious Eye Damage - Category 1, H318; Acute Toxicity (Oral) - Category 4, H302; Acute Toxicity (Dermal) – Category 4, H312; Acute Toxicity (Inhalation) - Category 4, H332	0.1 – 1% w/w
CAS: 80-15-9	dimethylbenzyl hydroperoxide 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	0.1 – 1% w/w
CAS: 110-16-7	2-Butenedioic acid (2Z) 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	0.1 – 1% w/w
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
CAS: 98-82-8	Cumene 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	≤ 0.1% w/w
		(Contd. on page

(Contd. on page 3)

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

Trade name: Vibra-TITE® Thread Sealant

(Contd. of page 2)

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.
- 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

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.

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.

Prevent formation of aerosols.

- Information about protection against explosions and fires: No special measures required.
- 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: 79-10-7	acrylic acid
EL (Canada)	TWA: 2 ppm
	Skin; R

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

Trade name: Vibra-TITE® Thread Sealant

(Contd. of page 3) EV (Canada) TWA: 2 ppm REL (USA) TWA: 6 mg/m3, 2 ppm Skin TLV (USA) TWA: 2 ppm Skin, A3 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 PEL (USA) TWA: 245 mg/m3, 50 ppm Skin REL (USA) TWA: 245 mg/m3, 50 ppm Skin TWA: 5 ppm TLV (USA)

- 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 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 - Appearance: Form: Viscous - Color: Yellow - Odor: Characteristic - Odor threshold: Not determined. - pH-value: Not determined. - Change in condition Melting point/Melting range: Undetermined. - Boiling point/Boiling range: ≥ 95 °C - Flash point: 95 °C

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

Trade name: Vibra-TITE® Thread Sealant

(Contd. of page 4)

- 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.
- Partition coefficient (n-octanol/wate	er): Not determined.
- Viscosity:	
- Dynamic:	Not determined.
- Kinematic:	Not determined.
- Solvent content:	
Organic solvents:	0.8 %
- Water:	1.3 %
- VOC content:	0.77 %
	7.7 g/l / 0.06 lb/gal
- Solids content:	21.9 %
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: No dangerous decomposition products known.

* 11 Toxicological information

- Information on toxicological effects
 - Acute toxicity:

- LI	- LD/LC50 values that are relevant for classification:	
ATE (Acut	te Toxicity	r Estimate)
Oral	LD50	4,167 mg/kg
Dermal	LD50	28,000 mg/kg (rabbit)
Inhalative	LC50/4 h	1,056 mg/l
CAS: 2478	8-10-6 4-h	ydroxybutyl acrylate
Oral	LD50	500 mg/kg (ATE)
CAS: 79-10-7 acrylic acid		
Oral	LD50	250 mg/kg (rat)
Dermal	LD50	280 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)
CAS: 80-1	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)
		(Contd. on page

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

Trade name: Vibra-TITE® Thread Sealant

		(Contd. of page 5
CAS: 110-	·16-7 2-Bu	tenedioic acid (2Z)
Oral	LD50	708 mg/kg (rat)
Dermal	LD50	1,560 mg/kg (rabbit)
CAS: 114-	83-0 2'-ph	nenylacetohydrazide
Oral	LD50	270 mg/kg (mouse)
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)

- 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

- Carcinogenic categories

- IAR	C (International Agency for Research on Cancer)	
CAS: 9002-84-0	Polytetrafluoroethylene	3
CAS: 79-10-7	acrylic acid	3
CAS: 98-82-8	Cumene	2B
- NTF	P (National Toxicology Program)	
CAS: 98-82-8	Cumene	F
CAS: 130-15-4	1,4-naphthoquinone	F

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, ADN, IMDG, IATA - UN proper shipping name - DOT/TDG, ADR, ADN, IMDG, IATA - Transport hazard class(es) - DOT/TDG, ADR, ADN, IMDG, IATA - Class - Packing group - DOT/TDG, ADR, IMDG, IATA not regulated

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

Trade name: Vibra-TITE® Thread Sealant

(Contd. of page 6)

- Environmental hazards: - Marine pollutant:	No	
- Special precautions for user	Not applicable.	
- Transport in bulk according to Annex II of and the IBC Code	MARPOL73/78 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

- Sara		
	ection 355 (extremely hazardous substances):	
None of the in	gredients is listed.	
- S	ection 313 (Specific toxic chemical listings):	
CAS: 79-10-7	acrylic acid	
CAS: 80-15-9	dimethylbenzyl hydroperoxide	
CAS: 98-82-8	Cumene	
CAS: 98-86-2	acetophenone	
- TSCA	A (Toxic Substances Control Act):	
Urethane met	hacrylate	ACTIVE
benzyl methad	crylate	ACTIVE
4-hydroxybuty	l acrylate	ACTIVE
Acrylic polyme	er	ACTIVE
Silicon dioxide	e, amorphous	ACTIVE
Polytetrafluoro	pethylene	ACTIVE
Deionized wat	er	ACTIVE
acrylic acid		ACTIVE
Saccharin		ACTIVE
dimethylbenzyl hydroperoxide		ACTIVE
	pp-2-enoyloxy)ethyl 2-methylprop-2-enoate	ACTIVE
		ACTIVE
2-Butenedioic acid (2Z)		ACTIVE
2'-phenylacetohydrazide AC		ACTIVE
		ACTIVE
,		ACTIVE
2,5-thiophenediylbis(5-tert-butyl-1,3-benzoxazole)		ACTIVE
Colorant		ACTIVE
acetophenone		ACTIVE
, , , ,		ACTIVE
N-isopropylhy	· ·	ACTIVE
	ne-1,1-diylbis(phosphonic acid)	ACTIVE
, 1 1		ACTIVE
2-Propanone,		ACTIVE
phosphorous acid AC		ACTIVE

- Canadian substance listings:

- Canad	- Canadian Domestic Substances List (DSL)	
CAS: 2495-37-6	benzyl methacrylate	
CAS: 2478-10-6	4-hydroxybutyl acrylate	
	Acrylic polymer	
CAS: 112945-52-5	Silicon dioxide, amorphous	
CAS: 9002-84-0	Polytetrafluoroethylene	
CAS: 7732-18-5	Deionized water	
CAS: 79-10-7	acrylic acid	
CAS: 128-44-9	Saccharin	
CAS: 80-15-9	dimethylbenzyl hydroperoxide	

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

Trade name: Vibra-TITE® Thread Sealant

	(Contd. of page 7)	
CAS: 25852-47-5	2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate	
CAS: 57-55-6	propane-1,2-diol	
CAS: 110-16-7	2-Butenedioic acid (2Z)	
CAS: 114-83-0	2'-phenylacetohydrazide	
CAS: 98-82-8	Cumene	
CAS: 64-02-8	tetrasodium ethylenediaminetetraacetate	
CAS: 7128-64-5	2,5-thiophenediylbis(5-tert-butyl-1,3-benzoxazole)	
CAS: 98-86-2	acetophenone	
CAS: 617-94-7	2-Phenyl-2-propanol	
CAS: 5080-22-8	N-isopropylhydroxylamine	
CAS: 2809-21-4	1-hydroxyethane-1,1-diylbis(phosphonic acid)	
CAS: 130-15-4	1,4-naphthoquinone	
CAS: 13598-36-2	phosphorous acid	
- Canad	dian Non-Domestic Substances List (NDSL)	
CAS: 127-06-0 2-F	Propanone, oxime	
- Canad	dian Ingredient Disclosure list (limit 0.1%)	
None of the ingred	ents is listed.	
- Canad	- Canadian Ingredient Disclosure list (limit 1%)	
CAS: 79-10-7 acry	/lic acid	

- 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

- * Data compared to the previous version altered.

- Disclaimer

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