



Safety Data Sheet

acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

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1 Identification

- Product identifier

- Trade name: Vibra-TITE® Structural Adhesive

- Synonyms: 226 No-Mix Structural Acrylic
- Part number: VT226
- Application of the substance / the mixture Adhesives

- 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

H351 Suspected of causing cancer.

Specific Target Organ Toxicity - Repeated Exposure 2 H373 May cause damage to organs through prolonged or repeated exposure.

GHS05 Corrosion

Eye Damage 1

Carcinogenicity 2

J.

H318 Causes serious eye damage.



Skin Irritation 2 Sensitization - Skin 1 H315 Causes skin irritation. 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: Acrylic Esters acrylic acid dimethylbenzyl hydroperoxide Cumene 2-hydroxyethyl methacrylate 2'-phenylacetohydrazide
- Hazard statements
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.
- H351 Suspected of causing cancer.

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	a damage to organs through prolonged or repeated exposure.
 Precautionary 	v 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.
P280	Wear protective gloves.
P280	Wear eye protection / face protection.
P302+P352	If on skin: Wash with plenty of water.
P305+P351+P33	38 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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
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.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
er hazards	

- Other hazards

- Results of PBT and vPvB assessment

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

3 Composition/information on ingredients

- Chemical characterization: Mixtures

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

- Dangerous	s components:	
	Urethane acrylate Oligomer	30 – 39%
	Skin Irritation 2, H315; Eye Irritation 2B, H320	-
CAS: 5888-33-5	Acrylic Esters	30 – 39%
	Sensitization - Skin 1B, H317	
CAS: 868-77-9	2-hydroxyethyl methacrylate	20 – 29%
	Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317	
CAS: 9004-36-8	Cellulose Acetate Butyrate	5 – 9%
	Combustible Dust	-
CAS: 79-10-7	acrylic acid	1 – 4%
	Flammable Liquids 3, H226; Skin Corrosion 1A, H314; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Acute Toxicity - Inhalation 4, H332	
CAS: 80-15-9	dimethylbenzyl hydroperoxide	1 – 4%
	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	~
CAS: 114-83-0	2'-phenylacetohydrazide	≤ 1%
	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	
CAS: 98-82-8	Cumene	≤ 1%
	Flammable Liquids 3, H226; Carcinogenicity 2, H351; Aspiration Hazard 1, H304; Acute Toxicity - Oral 4, H302; Specific Target Organ Toxicity - Single Exposure 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. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.

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- 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:* 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:* 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.

- 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: 79-10-7 acrylic acid

 REL
 Long-term value: 6 mg/m³, 2 ppm

 Skin

 TLV
 Long-term value: 2 ppm

 Skin, A3

CAS: 80-15-9 dimethylbenzyl hydroperoxide

WEEL Long-term value: 6 mg/m³, 1 ppm

Skin

CAS: 98-82-8 Cumene PEL Long-term value: 245 mg/m³, 50 ppm

Skin REL Long-term value: 245 mg/m³, 50 ppm Skin

TLV Long-term value: 5 ppm A3

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- 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 skin.
- Avoid contact with the eyes and skin.
- Breathing equipment:

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

9 Physical and chemical properties	
- Information on basic physical and chen - General Information - Appearance:	nical properties
- Form:	Viscous
- Color:	Dark brown
- Odor:	Characteristic
- Odor threshold:	Not determined.
- pH-value:	Not determined.
- Change in condition - Melting point/Melting range: - Boiling point/Boiling range:	Undetermined. ≥ 213 °C (≥ 415.4 °F)
- Flash point:	97 °C (206.6 °F)
- 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: - Upper:	Not determined. Not determined.
- Vapor pressure at 68 °C (154.4 °F):	≤ 1.3 hPa (≤ 1 mm Hg)
- Density at 20 °C (68 °F): - Relative density - Vapor density - Evaporation rate	~ 1.1 g/cm³ (~ 9.1795 lbs/gal) Not determined. Not determined. Not determined.
- Solubility in / Miscibility with - Water:	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/water	r): Not determined.

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- Viscosity:		
- Dynamic at 20 °C (68 °F):	17,000 mPas	
- Kinematic:	Not determined.	
- Solvent content:		
 Organic solvents: 	0.6 %	
- Water:	1.1 %	
- VOC content:	0.63 %	
	~ 7.0 g/l / ~ 0.06 lb/gal	
- Solids content:	9.2 %	
- 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:

	loxicity	
- LE	D/LC50 va	alues that are relevant for classification:
ATE (Acut	e Toxicity	r Estimate)
Oral	LD50	5,781 mg/kg (rat)
Dermal	LD50	6,658 mg/kg
Inhalative	LC50/4 h	309 mg/l
CAS: 868-	77-9 2-hyd	droxyethyl methacrylate
Oral	LD50	5,050 mg/kg (rat)
CAS: 9004	I-36-8 Cell	ulose Acetate Butyrate
Oral	LD50	> 6,400 mg/kg (rabbit)
Dermal	LD50	> 1,000 mg/kg (rabbit)
CAS: 79-1	0-7 acrylic	c acid
Oral	LD50	250 mg/kg (rat)
Dermal	LD50	280 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)
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)
CAS: 98-8	2-8 Cume	
Oral	LD50	1,400 mg/kg (rat)
	LD50	12,300 mg/kg (rabbit)
Inhalative	I C50/4 h	24.7 mg/l (mouse)

- Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.

- on the eye: Strong irritant with the danger of severe eye injury.

- Sensitization: Sensitization possible through skin contact.

- Additional toxicological information:

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

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	nogenic categories RC (International Agency for Re	osoarch an Cancar
CAS: 79-10-7		asearch on Cancery
CAS: 98-82-8		28
	P (National Toxicology Program	
CAS: 98-82-8		///) F
	1,4-naphthoquinone	F
	SHA-Ca (Occupational Safety &	Health Administration)
None of the Ing	redients is listed.	
2 Ecological	information	
 Persistence Behavior in of Bioaccum Mobility i Ecotoxical e Remark: Additional et General r Water haza Do not allow Also poisor Very toxic f Results of PL PBT: Not a VPvB: Not Other advers 	Very toxic for fish cological information: notes: ard class 1 (Self-assessment): slightly w undiluted product or large quantitie: hous for fish and plankton in water bo for aquatic organisms BT and vPvB assessment applicable.	vant information available. n available. v hazardous for water s of it to reach ground water, water course or sewage system. dies.
- Uncleaned p	endation: Must not be disposed of t	together with household garbage. Do not allow product to reach sewage system.
4 Transport i	nformation	
- UN-Number	~ //=/	
- DOT, IMD	•	UN3082
	hipping name	
- DOT		Environmentally hazardous substance, liquid, n.o.s. (Acrylic
- IMDG		acid, stabilized, isobornyl acrylate) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
INDG		N.O.S. (ACRYLIC ACID, STABILIZED, isobornyl acrylate),
- IATA		MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLIC ACID, STABILIZED, isobornyl acrylate)
- Transport ha	azard class(es)	
- DOT, IMD	G. IATA	
	<u>L</u>	

- Class - Label

Packing group
 DOT, IMDG, IATA

9

9 Miscellaneous dangerous substances and articles

D, CBD

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CAS: 98-82-8 Cumene

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Environmental hazards:	(Contd. of page Product contains environmentally hazardous substances: isoborn
	acrylate
- Marine pollutant:	No Yes (DOT) Symbol (fish and tree)
- Special marking (IATA):	Symbol (fish and tree)
Special precautions for user - Hazard identification number (Kemler code): - EMS Number:	Warning: Miscellaneous dangerous substances and articles 90 F-A,S-F
- Segregation groups - Stowage Category	(SGG1) Acids A
Transport in bulk according to Annex II of MARPOL7 and the IBC Code	73/78 Not applicable.
Transport/Additional information:	
- DOT	
- Quantity limitations	On passenger aircraft/rail: 450 L
- Remarks:	On cargo aircraft only: 450 L Special marking with the symbol (fish and tree).
- IMDG	
- Limited quantities (LQ)	5L
- Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLIC ACID, STABILIZED, ISOBORNYL ACRYLATE), 9, III
	tion specific for the substance or mixture
Regulatory information Safety, health and environmental regulations/legisla No further relevant information available. - Sara	tion specific for the substance or mixture
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- TLV (Threshold Limit Value)	
CAS: 79-10-7 acrylic acid	A4
- 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 Affaires
- **Contact:** Safety, Health and Environmental Affaires
- Classification System:
 - HMIS-ratings (scale 0 4)



- NFPA ratings (scale 0 - 4)



- Date of preparation / last revision 01/23/2024 - Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

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 Flammable Equits 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 3: Acute toxicity – Category 3 Skin Corrosion 1A: Skin corrosion/irritation – Category 1A Skin Corrosion 1B: Skin corrosion/irritation – Category 1B Skin Indiano 3: Skin corrosion/Irritation – Category 2 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 Eye Irritation 2B: Serious eye damage/eye irritation – Category 2B Sensitization - Skin 1: Skin sensitisation - Category 1 Sensitization - Skin 1B: Skin sensitisation - Category 1B 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.

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