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# Safety Data Sheet according to HPR, Schedule 1

Printing date 01/29/2024 Reviewed on 01/23/2024

#### 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 identification

- Classification of the substance or mixture



GHS08 Health hazard

Carcinogenicity - Category 2 H351 Suspected of causing cancer.

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



**GHS05 Corrosion** 

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



Skin Irritation - Category 2 Skin Sensitizer - Category 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







GHS05 GHS07 GHS08

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

- 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/vapours/spray.

P264 Wash thoroughly after handling.

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.

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.

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.

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:	
	Urethane acrylate Oligomer	15 – 40% w/w
	Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319	
CAS: 5888-33-5	Acrylic Esters Skin Sensitizer - Category 1B, H317	15 – 40% w/w
CAS: 868-77-9	2-hydroxyethyl methacrylate	10 – 30% w/w
JA3. 000-11-9	Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317	10 – 30 % W/W
CAS: 9004-36-8	Cellulose Acetate Butyrate Combustible Dusts - Category 1	5 – 10% w/w
CAS: 79-10-7	acrylic acid	1 – 5% w/w
	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	
CAS: 80-15-9	dimethylbenzyl hydroperoxide	0.5 - 1.5% w/v
	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	0.1 – 1% w/w
	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	
CAS: 98-82-8	Cumene	0.1 – 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

#### - 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.
- Information for doctor:
  - Most important symptoms and effects, both acute and delayed No further relevant information available.

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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:

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.

	7 th third, the duties conducted have no thrown exposure limite.	
CAS: 79-10-7	acrylic acid	
EL (Canada)	TWA: 2 ppm Skin; R	
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	
	(Contd on page	

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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: 25 ppm A3

- 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:



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

nformation on basic physical and che	mical properties	
- General Information		
- Appearance: - 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	
- Flash point:	97 °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 at 68 °C:	≤ 1.3 hPa	
- Density at 20 °C:	~ 1.1 g/cm³	

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- Relative density - Vapor density - Evaporation rate	Not determined. Not determined. Not determined.
- Solubility in / Miscibility with - Water:	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/wa	ater): Not determined.
<ul><li>Viscosity:</li><li>Dynamic at 20 °C:</li><li>Kinematic:</li></ul>	17,000 mPas Not determined.
- Solvent content: - Organic solvents: - Water: - VOC content:	0.6 % 1.1 % 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:

- LI	- LD/LC50 values that are relevant for classification:		
ATE (Acut	ATE (Acute Toxicity 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	1-36-8 Cell	lulose Acetate Butyrate	
Oral	LD50	> 6,400 mg/kg (rabbit)	
Dermal	LD50	> 1,000 mg/kg (rabbit)	
CAS: 79-1	0-7 acrylic	cacid	
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-	CAS: 114-83-0 2'-phenylacetohydrazide		
Oral	LD50	270 mg/kg (mouse)	
CAS: 98-8	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)	
		itant affact:	

- Primary irritant effect:
  - on the skin: Irritant to skin and mucous membranes.
  - on the eye: Strong irritant with the danger of severe eye injury.

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- 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

ternational Agency for Research on Cancer)	
acid	3
ne ne	2B
tional Toxicology Program)	
ene	R
aphthoquinone	R
; r	acid netional Toxicology Program) ene ene ene ene ene ene ene ene ene en

### 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.
- Ecotoxical effects:
  - Remark: Very toxic for fish
- 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.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

#### - 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, IMDG, IATA	UN3082
- UN proper shipping name	
- DOT/TDG	Environmentally hazardous substance, liquid, n.o.s. (Acrylic acid, stabilized, isobornyl acrylate)
- ADR	UN3082 Environmentally hazardous substance, liquid, n.o.s. (Acrylic acid, stabilized, isobornyl acrylate)
- IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLIC ACID, STABILIZED, isobornyl acrylate), MARINE POLLUTANT
- IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLIC ACID, STABILIZED, isobornyl acrylate)
Tues a superit because along (s.s.)	

#### - Transport hazard class(es)

- DOT/TDG, ADR, IMDG, IATA



- Class
- Label

9 Miscellaneous dangerous substances and articles

9

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	(Conta. of page
- Packing group - DOT/TDG, ADR, IMDG, IATA	III
- Environmental hazards:	Product contains environmentally hazardous substances: isobornyl acrylate
- Marine pollutant:	No Yes (DOT) Symbol (fish and tree)
- Special marking (ADR):	Symbol (fish and tree)
- Special marking (ABN):	· · · · · · · · · · · · · · · · · · ·
- Special marking (IATA).	Symbol (fish and tree)
- Special precautions for user - Hazard identification number (Kemler code):	Warning: Miscellaneous dangerous substances and articles 90
- EMS Number:	F-A,S-F
- Segregation groups	(SGG1) Acids
- Stowage Category	A
- Transport in bulk according to Annex II of MARPOL73 and the IBC Code	Not applicable.
- Transport/Additional information:	
- DOT/TDG	
2020	On management insulfit (mills 450.1
- Quantity limitations	On passenger aircraft/rail: 450 L
Demontos	On cargo aircraft only: 450 L
- Remarks:	Special marking with the symbol (fish and tree).
- ADR	
- Excepted quantities (EQ)	Code: E1
, , ,	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
- IMDG	
	EI
- Limited quantities (LQ) - Excepted quantities (EQ)	5L
- Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
IIN "Model Degulation".	1 71 1 0 0
- UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLIC ACID, STABILIZED, ISOBORNYL ACRYLATE), 9, III

# 15 Regulatory information

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

- Sara

- Se	- Section 355 (extremely hazardous substances):		
None of the in	None of the ingredients is listed.		
- Sc	- Section 313 (Specific toxic chemical listings):		
CAS: 79-10-7	acrylic acid		
CAS: 80-15-9	dimethylbenzyl hydroperoxide		
CAS: 98-82-8	Cumene		
- TSCA	- TSCA (Toxic Substances Control Act):		
All components have the value ACTIVE.			
- Cana	- Canadian substance listings:		

- Cana	ndian substance listings:
- C	anadian Domestic Substances List (DSL)
All ingredients	s are listed.
- C	anadian Non-Domestic Substances List (NDSL)
None of the in	gredients is listed.
- C	anadian Ingredient Disclosure list (limit 0.1%)
None of the in	gredients is listed.
- <b>C</b>	anadian Ingredient Disclosure list (limit 1%)
CAS: 868-77-9	9 2-hydroxyethyl methacrylate
CAS: 79-10-7	acrylic acid
	(Contd. on normal)

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CAS: 80-15-9 dimethylbenzyl hydroperoxide

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- 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)



Fire = 1

- NFPA ratings (scale 0 - 4)



Health = 3 Fire = 1 Reactivity = 0

- 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

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