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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: 274 No-Mix Structural Acrylic
 - Part number: VT274
 - 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

Skin Corrosion - Category 1A Serious Eye Damage - Category 1 H314 Causes severe skin burns and eve damage.

H318 Causes serious eye damage.



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







GHS05 GHS07 GHS08

- Signal word Danger
- Hazard-determining components of labeling:

acrylic acid

methacrylic acid, monoester with propane-1,2-diol dimethylbenzyl hydroperoxide

Cumene

Trifunctional acid ester

2'-phenylacetohydrazide

- Hazard statements

H314 Causes severe skin burns and 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 o	r reneated evangure
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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/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.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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.

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.
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.

3 Composition/Information on ingredients

- Chemical characterization: Mixtures

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

- Dangerous	components:	
	Urethane acrylate Oligomer	15 – 40% w/w
	Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319	
CAS: 7534-94-3	Isobornyl Methacrylate	10 – 30% w/w
	Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319	
CAS: 27813-02-1	L 	10 – 30% w/w
	Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317	
CAS: 142-90-5	dodecyl methacrylate	5 – 10% w/w
	Specific Target Organ Toxicity - Single Exposure - Category 3, H335	
CAS: 79-10-7	acrylic acid	3 – 7% 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	
	Trifunctional acid ester	1 – 5% w/w
	Skin Corrosion - Category 1A, H314; Serious Eye Damage - Category 1, H318; Skin Sensitizer - Category 1, H317	
CAS: 2530-83-8	Silane	1 – 5% w/w
	Serious Eye Damage - Category 1, H318	
CAS: 80-15-9	dimethylbenzyl hydroperoxide	1 – 5% 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: 613-48-9	N,N-Diethyl-P-Toluidine	0.5 - 1.5% w/w
	Acute Toxicity (Oral) - Category 3, H301; Acute Toxicity (Dermal) – Category 3, H311; Acute Toxicity (Inhalation) - Category 3, H331; Specific Target Organ Toxicity - Repeated Exposure - Category 2, H373; Eye Irritation - Category 2A, H319; Flammable Liquids - Category 4, H227	
CAS: 609-72-3	N,N-dimethyl-o-toluidine	0.1 – 1% w/w
	Acute Toxicity (Oral) - Category 3, H301; Acute Toxicity (Dermal) - Category 3, H311; Acute Toxicity (Inhalation) - Category 3, H331; Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Flammable Liquids - Category 4, H227	
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		(Contd. of page 2)
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	
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% w/w

4 First-aid measures

- Description of first aid measures

- General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation:

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: Drink copious amounts of water and provide fresh air. Immediately call a 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.

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

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:

Use neutralizing agent.

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.

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.

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- Specific end use(s) No further relevant information available.

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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.

CAC. 70 40 7 comitio cold					
	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				
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				

- 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:

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



Tightly sealed goggles

- Body protection: Protective work clothing

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9 Physical and chemical properties

31 Hysical and Chemical properties		
- Information on basic physical and chemical properties - General Information - Appearance:		
- Form:	Fluid	
- Color:		
- Color:	Amber colored	
	Characteristic	
- Odor threshold:	Not determined.	
- pH-value:	Not determined.	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 141 °C	
- Flash point:	100 °C	
- Flammability (solid, gaseous):	Not applicable.	
- Auto igniting:	374 °C	
- 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 20 °C:	0.1 hPa	
- Density at 20 °C:	0.99 g/cm³	
- Relative density	Not determined.	
- Vapor density	Not determined.	
- Evaporation rate	Not determined.	
- Solubility in / Miscibility with	Tel determined.	
- Water:	Not miscible or difficult to mix.	
- Partition coefficient (n-octanol/wa	Iter): Not determined.	
- Viscosity:		
- Dynamic at 20 °C:	1,200 mPas	
- Kinematic:	Not determined.	
- Solvent content:		
- Organic solvents:	0.6 %	
- Water:	0.1 %	
- VOC content:	0.58 %	
	5.8 g/l / 0.05 lb/gal	
- Solids content:	3.6 %	
- 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.

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11 Toxicological information

- Information on toxicological effects

- Acute toxicity:

	Acute toxicity.	
- LL	- LD/LC50 values that are relevant for classification:	
ATE (Acut	ATE (Acute Toxicity Estimate)	
Oral	LD50	2,134 mg/kg
Dermal	LD50	3,029 mg/kg
Inhalative	LC50/4 h	88.4 mg/l
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: 613-	-48-9 N,N-	Diethyl-P-Toluidine
Oral	LD50	100 mg/kg (ATE)
Dermal	LD50	300 mg/kg (ATE)
Inhalative	LC50/4 h	3 mg/l (ATE)
CAS: 609-	72-3 N,N-	dimethyl-o-toluidine
Oral	LD50	100 mg/kg (ATE)
Dermal	LD50	300 mg/kg (ATE)
Inhalative	LC50/4 h	3 mg/l (ATE)
CAS: 98-82-8 Cumene		
Oral	LD50	1,400 mg/kg (rat)
Dermal	LD50	12,300 mg/kg (rabbit)
		24.7 mg/l (mouse)
	CAS: 114-83-0 2'-phenylacetohydrazide	
Oral	LD50	270 mg/kg (mouse)
		itant affant

- Primary irritant effect:
 - on the skin: Caustic effect on skin and mucous membranes.
 - on the eye: Strong caustic effect.
- Sensitization: Sensitization possible through skin contact.

- Additional toxicological information:

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

Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- Carcinogenic categories

- <i>IA</i>	ARC (International Agency for Research on Cancer)	
CAS: 79-10-7	acrylic acid	3
CAS: 98-82-8	Cumene	2B
- N	TP (National Toxicology Program)	
CAS: 98-82-8	Cumene	R
CAS: 130-15-4	4 1,4-naphthoquinone	R

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: Toxic for fish

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- Additional ecological information:

- General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

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

T		
- UN-Number - DOT/TDG, ADR, ADN, IMDG, IATA	not regulated	
- UN proper shipping name - DOT/TDG, ADR, ADN, IMDG, IATA	not regulated	
- Transport hazard class(es)		
- DOT/TDG, ADR, ADN, IMDG, IATA - Class	not regulated	
- Packing group - DOT/TDG, ADR, IMDG, IATA	not regulated	
- Environmental hazards: - Marine pollutant:	No	
- Special precautions for user	Not applicable.	
- Transport in bulk according to Annex II of MARPOL73/ and the IBC Code	778 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

	- Sala			
	- Section 355 (extremely hazardous substances): None of the ingredients is listed.			
	- Section 313 (Specific toxic chemical listings):			
	CAS: 79-10-7 acrylic acid			
	CAS: 80-15-9 dimethylbenzyl hydroperoxide			
	CAS: 98-82-8 Cumene			
	- TSCA (Toxic Substances Control Act):			
	Urethane acrylate Oligomer AC			
Isobornyl Methacrylate				
	methacrylic acid, monoester with propane-1,2-diol			
dodecyl methacrylate A		ACTIVE		
acrylic acid AC		ACTIVE		
Trifunctional acid ester		ACTIVE		
Saccharin A		ACTIVE		
	Silane	ACTIVE		
	dimethylbenzyl hydroperoxide ACTIV			

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N,N-Diethyl-P-Toluidine	ACTIVE
N,N-dimethyl-o-toluidine	ACTIVE
propane-1,2-diol	ACTIVE
2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate	ACTIVE
Cumene	ACTIVE
2-Phenyl-2-propanol	ACTIVE
2'-phenylacetohydrazide	ACTIVE
Deionized water	ACTIVE
1-hydroxyethane-1,1-diylbis(phosphonic acid)	ACTIVE
tetrasodium ethylenediaminetetraacetate	ACTIVE
1,4-naphthoquinone	ACTIVE
phosphorous acid	ACTIVE

- Canadian substance listings:

- Canad	- Canadian substance listings:		
- Canadian Domestic Substances List (DSL)			
	Urethane acrylate Oligomer		
CAS: 7534-94-3	Isobornyl Methacrylate		
CAS: 27813-02-	1 methacrylic acid, monoester with propane-1,2-diol		
CAS: 142-90-5	dodecyl methacrylate		
CAS: 79-10-7	acrylic acid		
	Trifunctional acid ester		
CAS: 128-44-9	Saccharin		
CAS: 2530-83-8	Silane		
CAS: 80-15-9	dimethylbenzyl hydroperoxide		
CAS: 613-48-9	N,N-Diethyl-P-Toluidine		
CAS: 609-72-3	N,N-dimethyl-o-toluidine		
CAS: 57-55-6	propane-1,2-diol		
CAS: 25852-47-	5 2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate		
CAS: 98-82-8	Cumene		
CAS: 617-94-7	2-Phenyl-2-propanol		
CAS: 114-83-0	2'-phenylacetohydrazide		
CAS: 7732-18-5	Deionized water		
CAS: 2809-21-4	1-hydroxyethane-1,1-diylbis(phosphonic acid)		
CAS: 64-02-8	tetrasodium ethylenediaminetetraacetate		
CAS: 130-15-4	1,4-naphthoquinone		
CAS: 13598-36-	2 phosphorous acid		
- Cai	nadian Non-Domestic Substances List (NDSL)		
None of the ingr	edients is listed.		
- Car	- Canadian Ingredient Disclosure list (limit 0.1%)		
None of the ingr	None of the ingredients is listed.		
- Cai	- Canadian Ingredient Disclosure list (limit 1%)		
CAS: 142-90-5	dodecyl methacrylate		
CAS: 79-10-7	acrylic acid		
CAS: 80-15-9	dimethylbenzyl hydroperoxide		

- 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)



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- 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

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