



# 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® Structural Adhesive
  - Synonyms: 230 Structural Adhesive UV, Heat, or Activator Cure
  - Part number: VT230
  - Application of the substance / the mixture Adhesives

#### - Details of the supplier of the safety data sheet

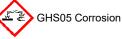
- *Manufacturer*/*Supplier:* ND Industries, Inc 1000 North Crooks Road Clawson, MI 48017 USA Telephone: +1-248-288-0000 Email: info@ndindustries.com Website: www.ndindustries.com

- 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



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



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



- Signal word Danger

- Hazard-determining components of labeling:

acrylic acid

2-hydroxyethyl methacrylate

- phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
- Hazard statements
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.
- Precautionary statements
- P261 Avoid breathing 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.
- P321 Specific treatment (see on this label).

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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.	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations	6.

## **3** Composition/Information on ingredients

## - Chemical characterization: Mixtures

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

- Dangerous o	components:		
CAS: 868-77-9	2-hydroxyethyl methacrylate	10 – 30% w/v	
	Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317		
CAS: 7534-94-3	Isobornyl Methacrylate	10 – 30% w/v	
	Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319	1	
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: 7473-98-5	2-hydroxy-2-methylpropiophenone	1 – 5% w/w	
	Acute Toxicity (Oral) - Category 4, H302	-	
CAS: 614-45-9	tert-butyl perbenzoate	0.1 – 1% w/w	
	Organic Peroxides – Type C, H242; Acute Toxicity (Oral) - Category 4, H302; Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Specific Target Organ Toxicity - Single Exposure - Category 3, H335		
CAS: 162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide Skin Sensitizer - Category 1A, H317	0.1 – 1% w/v	

### 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:

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.

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## 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				
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			

- 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:



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 a	nd chemical properties	
- General Information		
- Appearance:		
- Form:	Liquid	
- Color:	According to product specification	
- Odor:	Characteristic	
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- Odor threshold:	Not determined.
- pH-value:	Not determined.
- Change in condition - Melting point/Melting range: - Boiling point/Boiling range:	Undetermined. ≥ 213 °C
- Flash point:	> 94 °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: - Upper:	Not determined. Not determined.
- Vapor pressure at 68 °C:	≤ 1.3 hPa
- Density: - Relative density - Vapor density - Evaporation rate	Not determined. Not determined. Not determined. Not determined.
- Solubility in / Miscibility with - Water:	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/wa	<i>ter):</i> Not determined.
- Viscosity: - Dynamic: - Kinematic:	Not determined. Not determined.
- Solvent content: - Organic solvents: - Water: - VOC content:	0.1 % 0.0 % 0.12 % 1.2 g/l / 0.01 lb/gal
- Solids content:	3.3 %
ther information	No further relevant information available.

- *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 t	oxicological	effects
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- Acute toxicity:

<ul> <li>LD/LC50 values that are releva</li> </ul>	nt for classification:
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ATE (Acute Toxicity Estimate)OralLD505,026 mg/kg (rat)

Dermal LD50 6,222 mg/kg (rabbit)

Inhalative LC50/4 h 244 mg/l

## CAS: 868-77-9 2-hydroxyethyl methacrylate

Oral LD50 5,050 mg/kg (rat)

 CAS: 79-10-7 acrylic acid

 Oral
 LD50
 250 mg/kg (rat)

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Dermal	LD50	280 mg/kg (rabbit)	(Conta: of page 4)
Inhalative	LC50/4 h	11 mg/l (ATE)	
CAS: 747	3-98-5 2-h	ydroxy-2-methylpropiophenone	
Oral	LD50	1,694 mg/kg (rat)	
CAS: 614	-45-9 tert-	butyl perbenzoate	
Oral	LD50	1,012 mg/kg (rat)	
- <b>P</b>	rimary ir	ritant effect:	
	-	skin: Irritant to skin and mucous membranes.	
	- on the	eye: Irritating effect.	
- S		ion: Sensitization possible through skin contact.	
		xicological information:	
The pi Irritant		ws the following dangers according to internally approved calculation methods for preparations:	
- C	arcinoge	enic categories	
	- IARC (	International Agency for Research on Cancer)	
CAS: 79-1	0-7 acryl	ic acid	3
	- NTP (N	lational Toxicology Program)	I
CAS: 130-	-15-4 1,4-	naphthoquinone	R
Ecologi	cal info	rmation	
Toxicity			
- Aqua	tic toxic	<i>ity:</i> No further relevant information available.	
Persiste	nce and	degradability No further relevant information available.	
		ronmental systems:	
- Bioa	ccumula	tive potential No further relevant information available.	
		<i>il</i> No further relevant information available.	
		gical information:	
	eral note		
		ass 2 (Self-assessment): hazardous for water	
		duct to reach ground water, water course or sewage system.	

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

## - 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.

not regulated	
not regulated	
not regulated	
not regulated	
Not applicable.	
Not applicable.	
RPOL73/78 Not applicable.	
	not regulated not regulated not regulated Not applicable. Not applicable.

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- UN "Model Regulation":	not regulated	
5 Regulatory information		
- Safety, health and environmental regu No further relevant information available. - Sara	Ilations/legislation specific for the substance or mixtu	ıre
- Section 355 (extremely haza	ardous substances):	
None of the ingredients is listed.		
- Section 313 (Specific toxic o	chemical listings):	
CAS: 79-10-7 acrylic acid		
- TSCA (Toxic Substances Contr	ol Act):	
All components have the value ACTIVE.		
<ul> <li>Canadian substance listings:</li> </ul>		
- Canadian Domestic Substai	nces List (DSL)	
All ingredients are listed.		
- Canadian Non-Domestic Su	bstances List (NDSL)	
None of the ingredients is listed.		
- Canadian Ingredient Disclos	sure list (limit 0.1%)	
None of the ingredients is listed.		
- Canadian Ingredient Disclos	sure list (limit 1%)	
CAS: 868-77-9 2-hydroxyethyl methacrylate		
CAS: 79-10-7 acrylic acid		
- Chemical safety assessment: A Chemic	cal 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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