

01/26/2024

**Kit Components**

Product code	Description
<b>VTPB550WH</b>	<b>Vibra-TITE® Methacrylate Adhesives PB550 Marine - U.V. Stable - White</b>

Components:

VTPB550A	Vibra-TITE® Methacrylate Adhesives
VTPB550B	Vibra-TITE® Methacrylate Adhesives

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 01/26/2024

Reviewed on 01/26/2024

**1 Identification**

**- Product identifier**

- **Trade name:** Vibra-TITE® Methacrylate Adhesives
- **Synonyms:** PB550 Marine - U.V. Stable - White Part A
- **Part number:** VTPB550A
- **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**



GHS02 Flame

Flammable Liquids 2

H225 Highly flammable liquid and vapor.



GHS07

Skin Irritation 2

H315 Causes skin irritation.

Eye Irritation 2A

H319 Causes serious eye irritation.

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure 3

H335 May cause respiratory irritation.

**- Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

**- Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger

**- Hazard-determining components of labeling:**

methyl methacrylate  
Methacrylic acid  
2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate  
Monofunctional acid ester

**- Hazard statements**

H225 Highly flammable liquid and vapor.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.

**- Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.

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**Trade name:** Vibra-TITE® Methacrylate Adhesives

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P242	Use only non-sparking tools.
P271	Use only outdoors or in a well-ventilated area.
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.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.
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.
P321	Specific treatment (see on this label).
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

**- 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 components:**

CAS: 80-62-6	methyl methacrylate Flammable Liquids 2, H225; Skin Irritation 2, H315; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	60 – 69%
CAS: 79-41-4	Methacrylic acid Acute Toxicity - Dermal 3, H311; Skin Corrosion 1A, H314; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Acute Toxicity - Inhalation 4, H332; Specific Target Organ Toxicity - Single Exposure 3, H335; Flammable Liquids 4, H227	1 – 4%
CAS: 25852-47-5	2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	1 – 4%
	Tinuvin 400 Flammable Liquids 3, H226; Specific Target Organ Toxicity - Single Exposure 3, H336	≤ 1%
	Monofunctional acid ester Acute Toxicity - Dermal 3, H311; Skin Corrosion 1C, H314; Eye Damage 1, H318; Sensitization - Skin 1, H317	≤ 1%

### 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:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

**- For safety reasons unsuitable extinguishing agents:** Water**- Special hazards arising from the substance or mixture** No further relevant information available.**- Advice for firefighters****- Protective equipment:**

- Wear self-contained respiratory protective device.

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Trade name: Vibra-TITE® Methacrylate Adhesives

Wear fully protective suit.

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## 6 Accidental release measures

### - Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.  
 Ensure adequate ventilation  
 Keep away from ignition sources  
 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.  
 Do not flush with water or aqueous cleansing agents  
 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:

Keep ignition sources away - Do not smoke.  
 Protect against electrostatic charges.

### - 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.

<b>CAS: 80-62-6 methyl methacrylate</b>	
PEL	Long-term value: 410 mg/m <sup>3</sup> , 100 ppm
REL	Long-term value: 410 mg/m <sup>3</sup> , 100 ppm
TLV	Short-term value: 100 ppm Long-term value: 50 ppm DSEN, A4
<b>CAS: 79-41-4 Methacrylic acid</b>	
REL	Long-term value: 70 mg/m <sup>3</sup> , 20 ppm Skin
TLV	Long-term value: 20 ppm

- **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.

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Trade name: Vibra-TITE® Methacrylate Adhesives

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**- 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.

**- Body protection:** Protective work clothing

## 9 Physical and chemical properties

**- Information on basic physical and chemical properties****- General Information****- Appearance:****- Form:**

Viscous

**- Color:**

White

**- Odor:**

Pungent

**- Odor threshold:**

Not determined.

**- pH-value:**

Not determined.

**- Change in condition****- Melting point/Melting range:**

Undetermined.

**- Boiling point/Boiling range:**

≥ 101 °C (≥ 213.8 °F)

**- Flash point:**

10 °C (50 °F)

**- Flammability (solid, gaseous):**

Highly flammable.

**- Auto igniting:**

430 °C (806 °F)

**- Decomposition temperature:**

Not determined.

**- Ignition temperature:**

Product is not selfigniting.

**- Danger of explosion:**

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

**- Explosion limits:****- Lower:**

2.1 Vol %

**- Upper:**

12.5 Vol %

**- Vapor pressure at 20 °C (68 °F):**

≤ 47 hPa (≤ 35.3 mm Hg)

**- Density at 20 °C (68 °F):**~ 0.96 g/cm<sup>3</sup> (~ 8.0112 lbs/gal)**- 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/water):** Not determined.**- Viscosity:****- Dynamic at 20 °C (68 °F):**

160,000 mPas

**- Kinematic:**

Not determined.

**- Solvent content:****- VOC content:**

0.00 %

0.0 g/l / 0.00 lb/gal

**- Solids content:**

16.7 %

**- Other information**

No further relevant information available.

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Trade name: Vibra-TITE® Methacrylate Adhesives

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## 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:

#### - LD/LC50 values that are relevant for classification:

##### ATE (Acute Toxicity Estimate)

Oral	LD50	44,400 mg/kg (mouse)
Dermal	LD50	15,000 mg/kg
Inhalative	LC50/4 h	367 mg/l

##### CAS: 80-62-6 methyl methacrylate

Oral	LD50	7,872 mg/kg (rat)
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##### CAS: 79-41-4 Methacrylic acid

Oral	LD50	1,332 mg/kg (mouse)
Dermal	LD50	500 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)

##### Monofunctional acid ester

Dermal	LD50	300 mg/kg (ATE)
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#### - 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

##### - IARC (International Agency for Research on Cancer)

CAS: 80-62-6	methyl methacrylate	3
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##### - NTP (National Toxicology Program)

None of the ingredients is listed.

##### - OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## 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.

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Trade name: Vibra-TITE® Methacrylate Adhesives



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## 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, IMDG, IATA	UN1133
- UN proper shipping name - DOT - IMDG, IATA	Adhesives ADHESIVES
- Transport hazard class(es) - DOT	
	
- Class - Label	3 Flammable liquids 3
- IMDG, IATA	
	
- Class - Label	3 Flammable liquids 3
- Packing group - DOT, IMDG, IATA	III
- Environmental hazards: - Marine pollutant:	No
- Special precautions for user - Hazard identification number (Kemler code): - EMS Number: - Segregation groups - Stowage Category	Warning: Flammable liquids - F-E,S-D (SGG1) Acids A
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
- Transport/Additional information: - DOT - Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
- IMDG - Limited quantities (LQ) - Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- UN "Model Regulation":	UN 1133 ADHESIVES, 3, III

## \*15 Regulatory information

**- Safety, health and environmental regulations/legislation specific for the substance or mixture**

No further relevant information available.

**- Sara**
**- Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

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Trade name: Vibra-TITE® Methacrylate Adhesives

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<b>- Section 313 (Specific toxic chemical listings):</b>	
CAS: 80-62-6	methyl methacrylate
	Monofunctional acid ester
<b>- TSCA (Toxic Substances Control Act):</b>	
methyl methacrylate	ACTIVE
Butyl acrylate-methyl methacrylate polymer	ACTIVE
Methacrylic acid	ACTIVE
2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate	ACTIVE
Wax	ACTIVE
Amorphous Silica	ACTIVE
calcium carbonate	ACTIVE
MHPT	ACTIVE
Monofunctional acid ester	ACTIVE
Polymerization inhibitor	ACTIVE
Catalyst	ACTIVE
<b>- Hazardous Air Pollutants</b>	
CAS: 80-62-6	methyl methacrylate
<b>- Proposition 65</b>	
<b>- Chemicals known to cause cancer:</b>	
None of the ingredients is listed.	
<b>- Chemicals known to cause reproductive toxicity for females:</b>	
Monofunctional acid ester	
<b>- Chemicals known to cause reproductive toxicity for males:</b>	
Monofunctional acid ester	
<b>- Chemicals known to cause developmental toxicity:</b>	
Monofunctional acid ester	
<b>- Carcinogenic categories</b>	
<b>- EPA (Environmental Protection Agency)</b>	
CAS: 80-62-6	methyl methacrylate
	E, NL
<b>- TLV (Threshold Limit Value)</b>	
CAS: 80-62-6	methyl methacrylate
	A4
<b>- NIOSH-Ca (National Institute for Occupational Safety and Health)</b>	
None of the ingredients is listed.	
<b>- Chemical safety assessment:</b> 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 Affairs

**- Contact:** Safety, Health and Environmental Affairs

**- Classification System:**

**- HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = *2
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

**- NFPA ratings (scale 0 - 4)**

2	3	0	Health = 2
			Fire = 3
			Reactivity = 0

**- Date of preparation / last revision** 01/26/2024

**- 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)

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**Trade name:** Vibra-TITE® Methacrylate Adhesives

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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 2: Flammable liquids – Category 2  
Flammable Liquids 3: Flammable liquids – Category 3  
Flammable Liquids 4: Flammable liquids – Category 4  
Acute Toxicity - Oral 4: Acute toxicity – Category 4  
Acute Toxicity - Dermal 3: Acute toxicity – Category 3  
Skin Corrosion 1A: Skin corrosion/irritation – Category 1A  
Skin Corrosion 1C: Skin corrosion/irritation – Category 1C  
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  
Sensitization - Skin 1: Skin sensitisation – Category 1  
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

- \* **Data compared to the previous version altered.**

- **Disclaimer**

The information set forth is based on information that ND Industries, Incorporated believes to be accurate. No warranty, expressed or implied, is intended. The information is provided solely for your information and consideration and ND Industries Inc. assumes no legal responsibility for use or reliance thereon. In the event of a discrepancy between the information on the non-English document and its English counterpart, the English version shall supersede.

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**1 Identification**

**- Product identifier**

- **Trade name:** Vibra-TITE® Methacrylate Adhesives
- **Synonyms:** PB550 Marine - U.V. Stable White Part B
- **Part number:** VTPB550B
- **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

Carcinogenicity 2      H351 Suspected of causing cancer.



GHS07

Skin Irritation 2      H315 Causes skin irritation.  
Eye Irritation 2A      H319 Causes serious eye irritation.  
Sensitization - Skin 1      H317 May cause an allergic skin reaction.  
Flammable Liquids 4      H227 Combustible liquid.

**- Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

**- Hazard pictograms**



GHS07 GHS08

- **Signal word** Warning

**- Hazard-determining components of labeling:**

benzoyl peroxyde  
Cumene

**- Hazard statements**

H227 Combustible liquid.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.

**- Precautionary statements**

P201      Obtain special instructions before use.  
P202      Do not handle until all safety precautions have been read and understood.  
P210      Keep away from flames and hot surfaces. – No smoking.  
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.

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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+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	If exposed or concerned: Get medical advice/attention.
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.
P321	Specific treatment (see on this label).
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use CO <sub>2</sub> , powder or water spray to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

**- 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 components:**

CAS: 94-36-0	benzoyl peroxyde Organic Peroxides - Type B, H241; Eye Irritation 2A, H319; Sensitization - Skin 1, H317	10 – 19%
CAS: 131298-44-7	branched C10-alkyl benzoates Acute Toxicity - Inhalation 4, H332	1 – 4%
CAS: 1317-65-3	Calcium Carbonate Skin Irritation 2, H315	1 – 4%
CAS: 80-15-9	dimethylbenzyl hydroperoxide 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	1 – 4%
CAS: 557-05-1	zinc distearate Specific Target Organ Toxicity - Single Exposure 3, H335	≤ 1%
CAS: 98-82-8	Cumene Flammable Liquids 3, H226; Carcinogenicity 2, H351; Aspiration Hazard 1, H304; Acute Toxicity - Oral 4, H302; Specific Target Organ Toxicity - Single Exposure 3, H335	≤ 1%

### 4 First-aid measures

**- Description of first aid measures****- General information:**

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

**- 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:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

- **For safety reasons unsuitable extinguishing agents:** Water

- **Special hazards arising from the substance or mixture** No further relevant information available.

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Trade name: Vibra-TITE® Methacrylate Adhesives

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**- 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**

- Ensure adequate ventilation
- Keep away from ignition sources
- Wear protective clothing.

**- Environmental precautions:**

- Inform respective authorities in case of seepage into water course or sewage system.
- Dilute with plenty of water.
- 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).
- 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.

**- 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: 80-15-9 dimethylbenzyl hydroperoxide**

WEEL	Long-term value: 6 mg/m <sup>3</sup> , 1 ppm Skin
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**CAS: 557-05-1 zinc distearate**

PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV	Long-term value: 10* 3** mg/m <sup>3</sup> *inhalable, **respirable particulate matter, *A4

**CAS: 69012-64-2 Silica-Amorphous Silica fume**

TLV	TLV withdrawn
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**CAS: 98-82-8 Cumene**

PEL	Long-term value: 245 mg/m <sup>3</sup> , 50 ppm Skin
REL	Long-term value: 245 mg/m <sup>3</sup> , 50 ppm Skin
TLV	Long-term value: 5 ppm A3

**- Additional information:** The lists that were valid during the creation were used as basis.

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Trade name: Vibra-TITE® Methacrylate Adhesives

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**- 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.
- 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.

**- Body protection:** Protective work clothing

## 9 Physical and chemical properties

**- Information on basic physical and chemical properties****- General Information****- Appearance:**

- **Form:** Viscous
- **Color:** White
- **Odor:** Pungent
- **Odor threshold:** Not determined.

- **pH-value:** Not determined.**- Change in condition**

- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:**  $\geq 260\text{ }^{\circ}\text{C}$  ( $\geq 500\text{ }^{\circ}\text{F}$ )

- **Flash point:**  $84\text{ }^{\circ}\text{C}$  ( $183.2\text{ }^{\circ}\text{F}$ )- **Flammability (solid, gaseous):** May cause fire.- **Auto igniting:**  $410\text{ }^{\circ}\text{C}$  ( $770\text{ }^{\circ}\text{F}$ )- **Decomposition temperature:** Not determined.- **Ignition temperature:** Product is not selfigniting.- **Danger of explosion:** Not determined.**- Explosion limits:**

- **Lower:** Not determined.
- **Upper:** Not determined.

- **Vapor pressure at  $20\text{ }^{\circ}\text{C}$  ( $68\text{ }^{\circ}\text{F}$ ):** n.a. hPa- **Density at  $20\text{ }^{\circ}\text{C}$  ( $68\text{ }^{\circ}\text{F}$ ):**  $\sim 0.96\text{ g/cm}^3$  ( $\sim 8.0112\text{ lbs/gal}$ )- **Relative density:** Not determined.- **Vapor density:** Not determined.- **Evaporation rate:** Not determined.**- Solubility in / Miscibility with**- **Water:** Fully miscible.- **Partition coefficient (n-octanol/water):** Not determined.**- Viscosity:**- **Dynamic at  $20\text{ }^{\circ}\text{C}$  ( $68\text{ }^{\circ}\text{F}$ ):** 100,000 mPas

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Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 4)

- <b>Kinematic:</b>	Not determined.
- <b>Solvent content:</b>	
- <b>Organic solvents:</b>	1.1 %
- <b>Water:</b>	0.1 %
- <b>VOC content:</b>	1.11 % ~ 10.7 g/l / ~ 0.09 lb/gal
- <b>Solids content:</b>	84.2 %
- <b>Other information</b>	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:

##### - LD/LC50 values that are relevant for classification:

#### ATE (Acute Toxicity Estimate)

Oral	LD50	15,159 mg/kg (rat)
Dermal	LD50	19,841 mg/kg (rat)
Inhalative	LC50/4 h	37.3 mg/l

#### CAS: 131298-44-7 branched C10-alkyl benzoates

Inhalative	LC50/4 h	1.5 mg/l (ATE)
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#### 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)

#### CAS: 557-05-1 zinc distearate

Oral	LD50	10,000 mg/kg (rat)
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#### 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)

#### - Primary irritant effect:

- **on the skin:** No irritant effect.

- **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:

Harmful

Irritant

#### - Carcinogenic categories

##### - IARC (International Agency for Research on Cancer)

CAS: 13463-67-7	titanium dioxide	2B
CAS: 94-36-0	benzoyl peroxyde	3
CAS: 69012-64-2	Silica-Amorphous Silica fume	3
CAS: 98-82-8	Cumene	2B
CAS: 128-37-0	Butylated hydroxytoluene	3

##### - NTP (National Toxicology Program)

CAS: 98-82-8	Cumene	R
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Trade name: Vibra-TITE® Methacrylate Adhesives

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## - OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## 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.
- **Ecotoxicological effects:**
  - **Remark:** Harmful to fish
- **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.
    - Danger to drinking water if even small quantities leak into the ground.
    - Harmful to 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.
  - **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

- <b>UN-Number</b>	
- <b>DOT, ADN, IMDG, IATA</b>	not regulated
- <b>UN proper shipping name</b>	
- <b>DOT, ADN, IMDG, IATA</b>	not regulated
- <b>Transport hazard class(es)</b>	
- <b>DOT, ADN, IMDG, IATA</b>	
- <b>Class</b>	not regulated
- <b>Packing group</b>	
- <b>DOT, IMDG, IATA</b>	not regulated
- <b>Environmental hazards:</b>	
- <b>Marine pollutant:</b>	No
- <b>Special precautions for user</b>	Not applicable.
- <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
- <b>UN "Model Regulation":</b>	not regulated

## \*15 Regulatory information

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

### - Section 355 (extremely hazardous substances):

None of the ingredients is listed.

### - Section 313 (Specific toxic chemical listings):

CAS: 94-36-0	benzoyl peroxyde
CAS: 80-15-9	dimethylbenzyl hydroperoxide

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**Trade name:** Vibra-TITE® Methacrylate Adhesives

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CAS: 557-05-1	zinc distearate
CAS: 98-82-8	Cumene

**- TSCA (Toxic Substances Control Act):**

titanium dioxide	ACTIVE
Tetraethylene glycol hexoate	ACTIVE
benzoyl peroxyde	ACTIVE
branched C10-alkyl benzoates	ACTIVE
Calcium Carbonate	ACTIVE
Butyl acrylate-methyl methacrylate polymer	ACTIVE
dimethylbenzyl hydroperoxide	ACTIVE
Silicon dioxide, amorphous	ACTIVE
zinc distearate	ACTIVE
Amorphous Silica	ACTIVE
Silica-Amorphous Silica fume	ACTIVE
propane-1,2-diol	ACTIVE
Alumina Trihydrate	ACTIVE
Cumene	ACTIVE
2-Phenyl-2-propanol	ACTIVE
Butylated hydroxytoluene	ACTIVE
Deionized water	ACTIVE
tetrasodium ethylenediaminetetraacetate	ACTIVE
calcium carbonate	ACTIVE

**- Hazardous Air Pollutants**

CAS: 98-82-8 Cumene

**- Proposition 65****- Chemicals known to cause cancer:**

CAS: 98-82-8 Cumene

**- Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**- Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**- Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**- Carcinogenic categories****- EPA (Environmental Protection Agency)**

CAS: 557-05-1	zinc distearate	D, I, II
CAS: 98-82-8	Cumene	D, CBD

**- TLV (Threshold Limit Value)**

CAS: 13463-67-7	titanium dioxide	A4
CAS: 94-36-0	benzoyl peroxyde	A4
CAS: 128-37-0	Butylated hydroxytoluene	A4

**- NIOSH-Ca (National Institute for Occupational Safety and Health)**

CAS: 13463-67-7 titanium dioxide

**- 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 Affairs**- Contact:** Safety, Health and Environmental Affairs**- Classification System:****- HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = *2
FIRE	2	Fire = 2
REACTIVITY	0	Reactivity = 0

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Trade name: Vibra-TITE® Methacrylate Adhesives

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## - NFPA ratings (scale 0 - 4)



Health = 2  
Fire = 2  
Reactivity = 0

## - Date of preparation / last revision 01/26/2024

## - 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  
 Self-reactive substances and mixtures - Type F: Self-reactive substances and mixtures – Type E/F  
 Organic Peroxides - Type B: Organic peroxides – Type B  
 Organic Peroxides - Type E: Organic peroxides – Type E/F  
 Acute Toxicity - Inhalation 3: Acute toxicity – Category 3  
 Acute Toxicity - Inhalation 4: Acute toxicity – Category 4  
 Skin Corrosion 1B: Skin corrosion/irritation – Category 1B  
 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  
 Sensitization - Skin 1: Skin sensitisation – Category 1  
 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.

## - Disclaimer

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