

**Kit Components**

| Product code   | Description  |
|----------------|--|
| <b>VTPB330</b> | <b>Vibra-TITE® Methacrylate Adhesives<br/>PB330 All Purpose - Medium Set Time; High Strength</b> |

## Components:

|          |   |
|----------|---|
| VTPB330A | Vibra-TITE® Methacrylate Adhesives PB330 All Purpose<br>- Medium Set Time; High Strength - Part A |
| VTPB330B | Vibra-TITE® Methacrylate Adhesives PB330 All Purpose<br>- Medium Set Time; High Strength - Part B |

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

Printing date 05/03/2019

Reviewed on 05/03/2019

**1 Identification****- Product identifier****- Trade name:** Vibra-TITE® Methacrylate Adhesives**- Synonyms:** PB330 All Purpose - Medium Set Time; High Strength - Part A**- Part number:** VTPB330A**- 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

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 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 GHS08

**- Signal word** Danger**- Hazard-determining components of labeling:**methyl methacrylate  
maleic anhydride  
Monofunctional acid ester  
Rosin**- Hazard statements**

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

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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.  
 P242 Use only non-sparking tools.  
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P280 Wear protective gloves.  
 P280 Wear eye protection / face protection.  
 P284 [In case of inadequate ventilation] wear respiratory 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.  
 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.

**- Classification system:****- NFPA ratings (scale 0 - 4)****- HMIS-ratings (scale 0 - 4)****- 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<br>Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335        | 70 – 79% |
| CAS: 128-37-0  | Butylated hydroxytoluene<br>Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H336  | ≤ 1%     |
| CAS: 108-31-6  | maleic anhydride<br>Resp. Sens. 1, H334; Skin Corr. 1B, H314; Acute Tox. 4, H302; Skin Sens. 1, H317       | ≤ 1%     |
|                | Monofunctional acid ester<br>Acute Tox. 3, H311; Skin Corr. 1C, H314; Eye Dam. 1, H318; Skin Sens. 1, H317 | ≤ 1%     |
| CAS: 8050-09-7 | Rosin<br>Skin Sens. 1, H317  | ≤ 1%     |
| CAS: 98-82-8   | cumene<br>Flam. Liq. 3, H226; Carc. 2, H351; Asp. Tox. 1, H304; Acute Tox. 4, H302; STOT SE 3, H335        | ≤ 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. Then consult a doctor.

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- **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>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
  - **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **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**  
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:** Store in a cool location.
    - **Information about storage in one common storage facility:** Not required.
    - **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **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 item 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 remaining constituent has no known exposure limits.

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

|     |   |
|-----|---|
| 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: 410 mg/m <sup>3</sup> , 100 ppm |
|     | Long-term value: 205 mg/m <sup>3</sup> , 50 ppm   |
|     | DSEN  |

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|   |   |
|---|---|
| <b>CAS: 128-37-0 Butylated hydroxytoluene</b> |   |
| REL   | Long-term value: 10 mg/m <sup>3</sup>   |
| TLV   | Long-term value: 2* mg/m <sup>3</sup><br>*as inhalable fraction and vapor                         |
| <b>CAS: 108-31-6 maleic anhydride</b>         |   |
| PEL   | Long-term value: 1 mg/m <sup>3</sup> , 0.25 ppm   |
| REL   | Long-term value: 1 mg/m <sup>3</sup> , 0.25 ppm   |
| TLV   | Long-term value: 0.01* mg/m <sup>3</sup> , 0.0025* ppm<br>DSEN, RSEN; *inhalable fraction + vapor |
| <b>CAS: 8050-09-7 Rosin</b>                   |   |
| TLV   | DSEN, RSEN, L   |
| <b>CAS: 98-82-8 cumene</b>                    |   |
| PEL   | Long-term value: 245 mg/m <sup>3</sup> , 50 ppm<br>Skin   |
| REL   | Long-term value: 245 mg/m <sup>3</sup> , 50 ppm<br>Skin   |
| TLV   | Long-term value: (246) NIC-0.5 mg/m <sup>3</sup> , (50) NIC-0.1 ppm<br>NIC-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:



Tightly sealed goggles

##### - Body protection: Protective work clothing

## 9 Physical and chemical properties

### - Information on basic physical and chemical properties

#### - General Information

##### - Appearance:

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

- **pH-value at 20 °C (68 °F):** 5

#### - Change in condition

- **Melting point/Melting range:** Undetermined.

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|   |  |
|---|--|
| - <b>Boiling point/Boiling range:</b>             | ≥ 101 °C (≥ 213.8 °F)  |
| - <b>Flash point:</b>                             | 10 °C (50 °F)  |
| - <b>Flammability (solid, gaseous):</b>           | Not applicable.  |
| - <b>Ignition temperature:</b>                    | 430 °C (806 °F)  |
| - <b>Decomposition temperature:</b>               | Not determined.  |
| - <b>Auto igniting:</b>                           | Product is not selfigniting.   |
| - <b>Danger of explosion:</b>                     | Product is not explosive. However, formation of explosive air/vapor mixtures are possible. |
| - <b>Explosion limits:</b>                        |  |
| - <b>Lower:</b>                                   | 2.1 Vol %  |
| - <b>Upper:</b>                                   | 12.5 Vol %   |
| - <b>Vapor pressure at 20 °C (68 °F):</b>         | ≤ 47 hPa (≤ 35.3 mm Hg)  |
| - <b>Density at 20 °C (68 °F):</b>                | ~ 0.97 g/cm <sup>3</sup> (~ 8.09465 lbs/gal)   |
| - <b>Relative density</b>                         | Not determined.  |
| - <b>Vapor density</b>                            | Not determined.  |
| - <b>Evaporation rate</b>                         | Not determined.  |
| - <b>Solubility in / Miscibility with</b>         |  |
| - <b>Water:</b>                                   | Not miscible or difficult to mix.  |
| - <b>Partition coefficient (n-octanol/water):</b> | Not determined.  |
| - <b>Viscosity:</b>                               |  |
| - <b>Dynamic at 20 °C (68 °F):</b>                | 60,000 mPas  |
| - <b>Kinematic:</b>                               | Not determined.  |
| - <b>Solvent content:</b>                         |  |
| - <b>Organic solvents:</b>                        | 0.3 %  |
| - <b>Water:</b>                                   | 0.0 %  |
| - <b>VOC content:</b>                             | 0.34 %<br>~ 3.3 g/l / ~ 0.03 lb/gal  |
| - <b>Solids content:</b>                          | 27.9 %   |
| - <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:**

|   |          |                      |
|---|----------|----------------------|
| <b>- LD/LC50 values that are relevant for classification:</b> |          |                      |
| <b>ATE (Acute Toxicity Estimate)</b>                          |          |                      |
| Oral  | LD50     | 89,000 mg/kg (rat)   |
| Dermal  | LD50     | 50,000 mg/kg         |
| Inhalative  | LC50/4 h | 26,190 mg/l (rat)    |
| <b>CAS: 80-62-6 methyl methacrylate</b>                       |          |                      |
| Oral  | LD50     | 7,872 mg/kg (rat)    |
| <b>CAS: 128-37-0 Butylated hydroxytoluene</b>                 |          |                      |
| Oral  | LD50     | 890 mg/kg (rat)      |
| <b>CAS: 108-31-6 maleic anhydride</b>                         |          |                      |
| Oral  | LD50     | 400 mg/kg (rat)      |
| Dermal  | LD50     | 2,620 mg/kg (rabbit) |

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|                                  |          |                       |
|----------------------------------|----------|-----------------------|
| <b>Monofunctional acid ester</b> |          |                       |
| Dermal                           | LD50     | 300 mg/kg (ATE)       |
| <b>CAS: 98-82-8 cumene</b>       |          |                       |
| 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:** Irritant to skin and mucous membranes.

- **on the eye:** No 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  |
| CAS: 9010-98-4  | Neoprene rubber          | 3  |
| CAS: 128-37-0   | Butylated hydroxytoluene | 3  |
| CAS: 98-82-8    | cumene                   | 2B |
| CAS: 14807-96-6 | Soapstone                | 3  |

**- NTP (National Toxicology Program)**

|               |                    |   |
|---------------|--------------------|---|
| CAS: 98-82-8  | cumene             | R |
| CAS: 130-15-4 | 1,4-naphthoquinone | R |

**- 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.

## 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

|                                  |           |
|----------------------------------|-----------|
| <b>- UN-Number</b>               |           |
| - DOT, IMDG, IATA                | UN1133    |
| <b>- UN proper shipping name</b> |           |
| - DOT                            | Adhesives |
| - IMDG, IATA                     | ADHESIVES |

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|   |   |
|---|---|
| <b>- Transport hazard class(es)</b>   |   |
| <b>- DOT</b>  |   |
|  |   |
| <b>- Class</b>  | 3 Flammable liquids   |
| <b>- Label</b>  | 3   |
| <b>- IMDG, IATA</b>   |   |
|  |   |
| <b>- Class</b>  | 3 Flammable liquids   |
| <b>- Label</b>  | 3   |
| <b>- Packing group</b>  |   |
| <b>- DOT, IMDG, IATA</b>  | II  |
| <b>- Environmental hazards:</b>   |   |
| <b>- Marine pollutant:</b>  | No  |
| <b>- Special precautions for user</b>   |   |
| <b>- Danger code (Kemler):</b>  | Warning: Flammable liquids<br>338   |
| <b>- EMS Number:</b>  | F-E,S-D   |
| <b>- Stowage Category</b>   | B   |
| <b>- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>  |   |
| Not applicable.   |   |
| <b>- Transport/Additional information:</b>  |   |
| <b>- DOT</b>  |   |
| <b>- Quantity limitations</b>   | On passenger aircraft/rail: 1 L<br>On cargo aircraft only: 5 L  |
| <b>- IMDG</b>   |   |
| <b>- Limited quantities (LQ)</b>  | 1L  |
| <b>- Excepted quantities (EQ)</b>   | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| <b>- UN "Model Regulation":</b>   |   |
| UN 1133 ADHESIVES, 3, II  |   |

## \*15 Regulatory information

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

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

None of the ingredients is listed.

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

|               |                              |
|---------------|------------------------------|
| CAS: 80-62-6  | methyl methacrylate          |
| CAS: 80-15-9  | dimethylbenzyl hydroperoxide |
| CAS: 108-31-6 | maleic anhydride             |
|               | Monofunctional acid ester    |
| CAS: 98-82-8  | cumene                       |

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

|                               |        |
|-------------------------------|--------|
| methyl methacrylate           | ACTIVE |
| Impact modifying resin        | ACTIVE |
| Chlorosulfanated polyethylene | ACTIVE |
| Neoprene rubber               | ACTIVE |
| Butylated hydroxytoluene      | ACTIVE |
| dimethylbenzyl hydroperoxide  | ACTIVE |
| maleic anhydride              | ACTIVE |
| Wax                           | ACTIVE |

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|   |        |
|---|--------|
| Monofunctional acid ester               | *      |
| Rosin                                   | ACTIVE |
| propane-1,2-diol                        | ACTIVE |
| cumene                                  | ACTIVE |
| 2-Phenyl-2-propanol                     | ACTIVE |
| Polymerization inhibitor                | ACTIVE |
| Soapstone                               | ACTIVE |
| tetrasodium ethylenediaminetetraacetate | ACTIVE |
| Amorphous Silica                        | ACTIVE |
| 1,4-naphthoquinone                      | ACTIVE |
| Deionized water                         | ACTIVE |

**- Hazardous Air Pollutants**

|               |                     |
|---------------|---------------------|
| CAS: 80-62-6  | methyl methacrylate |
| CAS: 108-31-6 | maleic anhydride    |
| CAS: 98-82-8  | cumene              |
| CAS: 130-15-4 | 1,4-naphthoquinone  |

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

|              |                               |
|--------------|-------------------------------|
|              | Impact modifying resin        |
|              | Chlorosulfanated polyethylene |
| CAS: 98-82-8 | cumene                        |

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

|  |                           |
|--|---------------------------|
|  | Impact modifying resin    |
|  | Monofunctional acid ester |

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

|  |                           |
|--|---------------------------|
|  | Impact modifying resin    |
|  | Monofunctional acid ester |

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

|  |                           |
|--|---------------------------|
|  | Monofunctional acid ester |
|--|---------------------------|

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

|              |                     |        |
|--------------|---------------------|--------|
| CAS: 80-62-6 | methyl methacrylate | E, NL  |
| CAS: 98-82-8 | cumene              | D, CBD |

**- TLV (Threshold Limit Value established by ACGIH)**

|                 |                          |    |
|-----------------|--------------------------|----|
| CAS: 80-62-6    | methyl methacrylate      | A4 |
| CAS: 128-37-0   | Butylated hydroxytoluene | A4 |
| CAS: 108-31-6   | maleic anhydride         | A4 |
| CAS: 14807-96-6 | Soapstone                | A4 |

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

|                                    |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

**- Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**- Department issuing SDS:** ND Industries, Inc. - Safety, Health and Environmental Affairs**- Contact:** Safety, Health and Environmental Affairs**- Date of preparation / last revision** 05/03/2019 / 23**- Abbreviations and acronyms:**

ADR: Accord européen sur le transport 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  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 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)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 VOC: Volatile Organic Compounds (USA, EU)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic

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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  
Flam. Liq. 2: Flammable liquids – Category 2  
Flam. Liq. 3: Flammable liquids – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
Acute Tox. 3: Acute toxicity – Category 3  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Skin Corr. 1C: Skin corrosion/irritation – Category 1C  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Resp. Sens. 1: Respiratory sensitisation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
Carc. 2: Carcinogenicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Asp. Tox. 1: Aspiration hazard – Category 1

- \* **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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®Vibra-TITE is a registered trademark of ND Industries, Inc.

## Safety Data Sheet

acc. to OSHA HCS

Printing date 05/03/2019

Reviewed on 05/03/2019

### 1 Identification

**- Product identifier**

- **Trade name:** Vibra-TITE® Methacrylate Adhesives
- **Synonyms:** PB330 All Purpose - Medium Set Time; High Strength - Part B
- **Part number:** VTPB330B
- **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

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.  
 Skin Sens. 1 H317 May cause an allergic skin reaction.  
 STOT SE 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

**- Hazard statements**

H225 Highly flammable liquid and vapor.  
 H315 Causes skin 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.  
 P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.  
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
 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.  
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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|           |   |
|-----------|---|
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                          |
| 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. |

**- Classification system:****- NFPA ratings (scale 0 - 4)**

|   |   |   |
|---|---|---|
| 1 | 3 | 0 |
|---|---|---|

Health = 1  
Fire = 3  
Reactivity = 0

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

|              |                |
|--------------|----------------|
| HEALTH 1     | Health = 1     |
| FIRE 3       | Fire = 3       |
| REACTIVITY 0 | Reactivity = 0 |

**- 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<br>Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335                                   | 70 – 79% |
| CAS: 34562-31-7 | 3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine<br>Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2B, H320 | 1 – 4%   |
| CAS: 128-37-0   | Butylated hydroxytoluene<br>Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H336                             | ≤ 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.

- **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>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

- **For safety reasons unsuitable extinguishing agents:** Water with full jet

- **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.

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Trade name: Vibra-TITE® Methacrylate Adhesives

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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:** Store in a cool location.

- **Information about storage in one common storage facility:** Not required.

#### - Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

### - 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 item 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 remaining constituent has 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: 410 mg/m <sup>3</sup> , 100 ppm |
|   | Long-term value: 205 mg/m <sup>3</sup> , 50 ppm   |
|   | DSEN  |
| <b>CAS: 128-37-0 Butylated hydroxytoluene</b> |   |
| REL   | Long-term value: 10 mg/m <sup>3</sup>             |
| TLV   | Long-term value: 2* mg/m <sup>3</sup>             |
|   | *as inhalable fraction and vapor                  |

- **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.

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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.

**- Eye protection:**

Tightly sealed goggles

**- Body protection:** Protective work clothing

## 9 Physical and chemical properties

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

Viscous

**- Color:**

Whitish

**- 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):**

Not applicable.

**- Ignition temperature:**

430 °C (806 °F)

**- Decomposition temperature:**

Not determined.

**- Auto igniting:**

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):**1.25 g/cm<sup>3</sup> (10.43125 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):**

100,000 mPas

**- Kinematic:**

Not determined.

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

0.00 %

0.0 g/l / 0.00 lb/gal

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Trade name: Vibra-TITE® Methacrylate Adhesives

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|                            |  |
|----------------------------|--|
| <b>- Solids content:</b>   | 26.7 %                                     |
| <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:**

|  |      |                   |
|--|------|-------------------|
| <b>- LD/LC50 values that are relevant for classification:</b>            |      |                   |
| <b>ATE (Acute Toxicity Estimate)</b>                                     |      |                   |
| Oral   | LD50 | 16,330 mg/kg      |
| Dermal   | LD50 | 44,000 mg/kg      |
| <b>CAS: 80-62-6 methyl methacrylate</b>                                  |      |                   |
| Oral   | LD50 | 7,872 mg/kg (rat) |
| <b>CAS: 34562-31-7 3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine</b> |      |                   |
| Oral   | LD50 | 500 mg/kg (ATE)   |
| Dermal   | LD50 | 1,100 mg/kg (ATE) |
| <b>CAS: 128-37-0 Butylated hydroxytoluene</b>                            |      |                   |
| Oral   | LD50 | 890 mg/kg (rat)   |

- **Primary irritant effect:**
  - **on the skin:** Irritant to skin and mucous membranes.
  - **on the eye:** No 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**

|   |                          |   |
|---|--------------------------|---|
| <b>- IARC (International Agency for Research on Cancer)</b> |                          |   |
| CAS: 80-62-6  | methyl methacrylate      | 3 |
| CAS: 128-37-0   | Butylated hydroxytoluene | 3 |

**- 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

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

## \*15 Regulatory information

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

- Sara

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

None of the ingredients is listed.

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

CAS: 80-62-6 | methyl methacrylate

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

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|   |                                   |       |
|---|-----------------------------------|-------|
| CAS: 13395-16-9   | copper(II) 4-oxopent-2-en-2-olate |       |
| <b>- TSCA (Toxic Substances Control Act):</b>   |                                   |       |
| All components have the value ACTIVE.   |                                   |       |
| <b>- Hazardous Air Pollutants</b>   |                                   |       |
| CAS: 80-62-6  | methyl methacrylate               |       |
| <b>- Proposition 65</b>   |                                   |       |
| <b>- Chemicals known to cause cancer:</b>   |                                   |       |
| Impact modifying resin  |                                   |       |
| <b>- Chemicals known to cause reproductive toxicity for females:</b>                        |                                   |       |
| Impact modifying resin  |                                   |       |
| <b>- Chemicals known to cause reproductive toxicity for males:</b>                          |                                   |       |
| Impact modifying resin  |                                   |       |
| <b>- Chemicals known to cause developmental toxicity:</b>                                   |                                   |       |
| None of the ingredients is listed.  |                                   |       |
| <b>- Carcinogenic categories</b>  |                                   |       |
| <b>- EPA (Environmental Protection Agency)</b>  |                                   |       |
| CAS: 80-62-6  | methyl methacrylate               | E, NL |
| <b>- TLV (Threshold Limit Value established by ACGIH)</b>                                   |                                   |       |
| CAS: 80-62-6  | methyl methacrylate               | A4    |
| CAS: 128-37-0   | Butylated hydroxytoluene          | 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 Affaires

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

**- Date of preparation / last revision** 05/03/2019 / 14

**- Abbreviations and acronyms:**

ADR: Accord européen sur le transport 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  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 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)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 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  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Acute Tox. 4: Acute toxicity – Category 4  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
 Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B  
 Skin Sens. 1: Skin sensitisation – Category 1  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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

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