

12.05.2021

**Kit components**

Product code	Description
<b>VTPB300</b>	<b>Vibra-TITE® Methacrylate Adhesives PB300 All Purpose - Fast Set; High Strength</b>

Components:

VTPB300A	Vibra-TITE® Methacrylate Adhesives PB300 All Purpose - Fast Set; High Strength - Part A
VTPB300B	Vibra-TITE® Methacrylate Adhesives PB300 All Purpose - Fast Set; High Strength - Part B

**Safety Data Sheet**  
according to WHS Regulations

Printing date 12.05.2021

Version number 42

Revision: 12.05.2021

**1 Identification**

**- Product identifier**

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

- **Article number:** VTPB300A

**- Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

- **Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

- **Product category** PC1 Adhesives, sealants

- **Environmental release category** ERC5 Use at industrial site leading to inclusion into/onto article

- **Article category** AC0 Other

- **Application of the substance / the mixture** Adhesives

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

**- Manufacturer:**

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

**Supplier:**

Engineering Adhesives & Lubricants (Aust) Pty Ltd  
3/119 Olympic Circuit  
Southport QLD 4215  
Australia  
Telephone: +61-7-55314242  
Email: info@eal.com.au  
Website: www.eal.com.au

- **Further information obtainable from:** 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 vapour.



GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

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 labelled according to the Globally Harmonised System (GHS).

**- Hazard pictograms**



GHS02 GHS05 GHS07

- **Signal word** Danger

**- Hazard-determining components of labelling:**

methyl methacrylate  
Methacrylic acid  
Monofunctional acid ester

**- Hazard statements**

H225 Highly flammable liquid and vapour.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.

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**- Precautionary statements**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 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).  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 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 and Information on Ingredients

**- Chemical characterisation: Mixtures**

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

**- Dangerous components:**

CAS: 80-62-6	methyl methacrylate Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	49.34%
CAS: 79-41-4	Methacrylic acid Acute Tox. 3, H311; Skin Corr. 1A, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335	10 – 19%
CAS: 128-37-0	Butylated hydroxytoluene Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H336	1 – 4%
	Monofunctional acid ester Acute Tox. 3, H311; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Sens. 1, H317	≥ 1 – < 2.5%
CAS: 80-15-9	dimethylbenzyl hydroperoxide Self-react. F, H242; Org. Perox. E, H242; Acute Tox. 3, H331; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; STOT SE 3, H335	≥ 0.25 – < 1%
CAS: 98-82-8	cumene Flam. Liq. 3, H226; Carc. 2, H351; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Acute Tox. 4, H302; STOT SE 3, H335	≥ 0.1 – < 0.25%

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 4 First Aid Measures

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

Immediately remove any clothing soiled by the product.  
 Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**- After inhalation:**

Supply fresh air and to be sure call for a doctor.  
 In case of unconsciousness place patient stably in side position for transportation.  
 Supply fresh air; consult doctor in case of complaints.

**- After skin contact:** Immediately wash with water and soap and rinse thoroughly.**- After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.**- After swallowing:**

Call for a doctor immediately.  
 Drink plenty of water and provide fresh air. Call for a doctor immediately.

**- 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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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).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Dispose of the material collected 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 fire - and explosion protection:**

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 container tightly sealed.

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

### 8 Exposure controls and personal protection

**- Additional information about design of technical facilities:** No further data; see item 7.

**- Control parameters**

**- Ingredients with limit values that require monitoring at the workplace:**

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

WES Short-term value: 416 mg/m<sup>3</sup>, 100 ppmLong-term value: 208 mg/m<sup>3</sup>, 50 ppm

Sen

**CAS: 79-41-4 Methacrylic acid**

WES Long-term value: 70 mg/m<sup>3</sup>, 20 ppm

**CAS: 128-37-0 Butylated hydroxytoluene**

WES Long-term value: 10 mg/m<sup>3</sup>

**CAS: 98-82-8 cumene**

WES Short-term value: 375 mg/m<sup>3</sup>, 75 ppmLong-term value: 125 mg/m<sup>3</sup>, 25 ppm

Sk

**- 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.

**- Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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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
- **Colour:** Whitish
- **Odour:** Pungent
- **Odour threshold:** Not determined.

- **pH-value at 20 °C:** 5

**- Change in condition**

- **Melting point/freezing point:** Undetermined.
- **Initial boiling point and boiling range:** ≥ 101 °C

- **Flash point:** 10 °C

- **Flammability (solid, gas):** Not applicable.

- **Ignition temperature:** 430 °C

- **Decomposition temperature:** Not determined.

- **Auto-ignition temperature:** Product is not selfigniting.

- **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

**- Explosion limits:**

- **Lower:** 2.1 Vol %
- **Upper:** 12.5 Vol %

- **Vapour pressure at 20 °C:** ≤ 47 hPa

- **Density at 20 °C:** ~ 0.97 g/cm<sup>3</sup>
- **Relative density** Not determined.
- **Vapour 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:** 250,000 mPas
- **Kinematic:** Not determined.

**- Solvent content:**

- **Organic solvents:** 0.1 %
- **VOC (EC)** 0.10 %

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- <b>Solids content:</b>	38.2 %
- <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 relevant for classification:		
<b>ATE (Acute Toxicity Estimates)</b>		
Oral	LD50	10,251 mg/kg
Dermal	LD50	4,000 mg/kg
Inhalative	LC50/4 h	110 mg/l
<b>CAS: 80-62-6 methyl methacrylate</b>		
Oral	LD50	7,872 mg/kg (rat)
<b>CAS: 79-41-4 Methacrylic acid</b>		
Oral	LD50	1,332 mg/kg (mouse)
Dermal	LD50	500 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)
<b>CAS: 128-37-0 Butylated hydroxytoluene</b>		
Oral	LD50	890 mg/kg (rat)
<b>Monofunctional acid ester</b>		
Dermal	LD50	300 mg/kg (ATE)
<b>CAS: 80-15-9 dimethylbenzyl hydroperoxide</b>		
Oral	LD50	382 mg/kg (rat)
Dermal	LD50	500 mg/kg (rat)
Inhalative	LC50/4 h	220 mg/l (rat)
<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:**
  - **Skin corrosion/irritation** Strong caustic effect on skin and mucous membranes.
  - **Serious eye damage/irritation** Strong caustic effect.
  - **Respiratory or skin sensitisation** Sensitisation possible through skin contact.
- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful  
Corrosive  
Irritant

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

### 12 Ecological Information

- **Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
  - **Bioaccumulative potential** No further relevant information available.
  - **Mobility in soil** No further relevant information available.

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**- Additional ecological information:****- General notes:**

Water hazard class 1 (German Regulation) (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.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.

**- 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 together with household garbage. Do not allow product to reach sewage system.**- Uncleaned packaging:****- Recommendation:** Disposal must be made according to official regulations.**14 Transport information****- UN-Number****- ADG, IMDG, IATA** UN2924**- UN proper shipping name**

**- ADG** UN2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED, METHACRYLIC ACID, STABILIZED)

**- IMDG, IATA** FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED, METHACRYLIC ACID, STABILIZED)

**- Transport hazard class(es)****- ADG**

**- Class** 3 Flammable liquids.  
**- Label** 3+8

**- IMDG**

**- Class** 3 Flammable liquids.  
**- Label** 3/8

**- IATA**

**- Class** 3 Flammable liquids.  
**- Label** 3 (8)

**- Packing group****- ADG, IMDG, IATA** II**- Environmental hazards:****- Marine pollutant:** No**- Special precautions for user**

Warning: Flammable liquids.

**- Hazard identification number (Kemler code):** 338**- EMS Number:** F-E,S-C**- Segregation groups** Acids**- Stowage Category** B**- Stowage Code** SW2 Clear of living quarters.

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- <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
<b>- Transport/Additional information:</b>	
<b>- ADG</b>	
- <b>Limited quantities (LQ)</b>	1L
- <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- <b>Transport category</b>	2
- <b>Tunnel restriction code</b>	D/E
<b>- IMDG</b>	
- <b>Limited quantities (LQ)</b>	1L
- <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- <b>UN "Model Regulation":</b>	UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED, METHACRYLIC ACID, STABILIZED), 3 (8), II

### 15 Regulatory information

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

**- Australian Inventory of Industrial Chemicals**

CAS: 80-62-6	methyl methacrylate
CAS: 79-41-4	Methacrylic acid
CAS: 128-37-0	Butylated hydroxytoluene
CAS: 80-15-9	dimethylbenzyl hydroperoxide
CAS: 98-82-8	cumene
CAS: 617-94-7	2-Phenyl-2-propanol
	Polymerization inhibitor
CAS: 130-15-4	1,4-naphthoquinone

**- Standard for the Uniform Scheduling of Medicines and Poisons**

CAS: 80-62-6	methyl methacrylate	S6, S10
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**- Australia: Priority Existing Chemicals**

None of the ingredients is listed.

**- Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

- **Seveso category** P5c FLAMMABLE LIQUIDS

- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t

- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

- **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.

**- Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H242 Heating may cause a fire.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H311 Toxic in contact with skin.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.

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H336 May cause drowsiness or dizziness.  
 H351 Suspected of causing cancer.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H411 Toxic to aquatic life with long lasting effects.

- **Department issuing SDS:** ND Industries, Inc. - Safety, Health and Environmental Affairs

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

- **Classification System:**

- **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  
 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  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Flam. Liq. 3: Flammable liquids – Category 3  
 Self-react. F: Self-reactive substances and mixtures – Type E/F  
 Org. Perox. E: Organic peroxides – Type E/F  
 Acute Tox. 4: Acute toxicity – Category 4  
 Acute Tox. 3: Acute toxicity – Category 3  
 Skin Corr. 1A: Skin corrosion/irritation – Category 1A  
 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. 2: Serious eye damage/eye irritation – Category 2  
 Skin Sens. 1: Skin sensitisation – Category 1  
 Carc. 2: Carcinogenicity – Category 2  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
 Asp. Tox. 1: Aspiration hazard – Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

- **Disclaimer**

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### 1 Identification

**- Product identifier**

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

- **Article number:** VTPB300B

- **Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

- **Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

- **Product category** PC1 Adhesives, sealants

- **Environmental release category** ERC5 Use at industrial site leading to inclusion into/onto article

- **Article category** AC0 Other

- **Application of the substance / the mixture** Adhesives

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

- **Manufacturer:**

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

**Supplier:**

Engineering Adhesives & Lubricants (Aust) Pty Ltd  
3/119 Olympic Circuit  
Southport QLD 4215  
Australia  
Telephone: +61-7-55314242  
Email: info@eal.com.au  
Website: www.eal.com.au

- **Further information obtainable from:** 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 vapour.



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 labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger

- **Hazard-determining components of labelling:**

methyl methacrylate

- **Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

- **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

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

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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 and Information on Ingredients

**- Chemical characterisation: Mixtures****- Description:** Mixture of substances listed below with nonhazardous additions.**- Dangerous components:**

CAS: 80-62-6	methyl methacrylate Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	69.80%
CAS: 34562-31-7	3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319	1 – 4%
CAS: 128-37-0	Butylated hydroxytoluene Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H336	≤ 1%

**- Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 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>, 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.

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 material collected 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.

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Prevent formation of aerosols.

**- Information about fire - and explosion protection:**

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 container tightly sealed.**- Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

**- Additional information about design of technical facilities:** No further data; see item 7.**- Control parameters****- Ingredients with limit values that require monitoring at the workplace:****CAS: 80-62-6 methyl methacrylate**

WES	Short-term value: 416 mg/m <sup>3</sup> , 100 ppm
	Long-term value: 208 mg/m <sup>3</sup> , 50 ppm
	Sen

**CAS: 128-37-0 Butylated hydroxytoluene**

WES	Long-term value: 10 mg/m <sup>3</sup>
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**- 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.

**- Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

**- 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

**- Colour:**

Whitish

**- Odour:**

Pungent

**- Odour threshold:**

Not determined.

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- <b>pH-value:</b>	Not determined.
- <b>Change in condition</b>	
- <b>Melting point/freezing point:</b>	Undetermined.
- <b>Initial boiling point and boiling range:</b>	≥ 101 °C
- <b>Flash point:</b>	10 °C
- <b>Flammability (solid, gas):</b>	Not applicable.
- <b>Ignition temperature:</b>	430 °C
- <b>Decomposition temperature:</b>	Not determined.
- <b>Auto-ignition temperature:</b>	Product is not selfigniting.
- <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- <b>Explosion limits:</b>	
- <b>Lower:</b>	2.1 Vol %
- <b>Upper:</b>	12.5 Vol %
- <b>Vapour pressure at 20 °C:</b>	≤ 47 hPa
- <b>Density at 20 °C:</b>	~ 1.25 g/cm <sup>3</sup>
- <b>Relative density</b>	Not determined.
- <b>Vapour 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:</b>	100,000 mPas
- <b>Kinematic:</b>	Not determined.
- <b>Solvent content:</b>	
- <b>Organic solvents:</b>	0.0 %
- <b>VOC (EC)</b>	0.03 %
- <b>Solids content:</b>	28.7 %
- <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**

- **LD/LC50 values relevant for classification:**

**ATE (Acute Toxicity Estimates)**

Oral	LD50	16,330 mg/kg
Dermal	LD50	44,000 mg/kg

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

Oral	LD50	7,872 mg/kg (rat)
------	------	-------------------

**CAS: 34562-31-7 3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine**

Oral	LD50	500 mg/kg (ATE)
Dermal	LD50	1,100 mg/kg (ATE)

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CAS: 128-37-0 Butylated hydroxytoluene

Oral LD50 890 mg/kg (rat)

**- Primary irritant effect:**- **Skin corrosion/irritation** Irritant to skin and mucous membranes.- **Serious eye damage/irritation** No irritating effect.- **Respiratory or skin sensitisation** Sensitisation possible through skin contact.**- Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

### 12 Ecological Information

**- Toxicity**- **Aquatic toxicity:** No further relevant information available.- **Persistence and degradability** No further relevant information available.**- Behaviour 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 (German Regulation) (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 together with household garbage. Do not allow product to reach sewage system.**- Uncleaned packaging:**- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

**- UN-Number**- **ADG, IMDG, IATA**

UN1133

**- UN proper shipping name**- **ADG**

UN1133 ADHESIVES

- **IMDG, IATA**

ADHESIVES

**- Transport hazard class(es)**- **ADG, IMDG, IATA**- **Class**

3 Flammable liquids.

- **Label**

3

**- Packing group**- **ADG, IMDG, IATA**

III

**- Environmental hazards:**- **Marine pollutant:**

No

**- Special precautions for user**

Warning: Flammable liquids.

- **Hazard identification number (Kemler code):**

-

- **EMS Number:**

F-E,S-D

- **Stowage Category**

A

**- Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

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<b>- Transport/Additional information:</b>	
<b>- ADG</b>	
- Limited quantities (LQ)	5L
- Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
- Transport category	3
- Tunnel restriction code	E
<b>- IMDG</b>	
- Limited quantities (LQ)	5L
- Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
<b>- UN "Model Regulation":</b>	UN 1133 ADHESIVES, 3, III

## 15 Regulatory information

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

#### - Australian Inventory of Industrial Chemicals

CAS: 80-62-6	methyl methacrylate
CAS: 21645-51-2	Alumina Trihydrate
CAS: 26299-47-8	2-propenoic acid, butyl ester polymer
CAS: 34562-31-7	3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine
CAS: 128-37-0	Butylated hydroxytoluene
CAS: 100-42-5	styrene
	Polymerization inhibitor
CAS: 107-13-1	acrylonitrile
CAS: 13395-16-9	copper(II) 4-oxopent-2-en-2-olate

#### - Standard for the Uniform Scheduling of Medicines and Poisons

CAS: 80-62-6	methyl methacrylate	S6, S10
CAS: 100-42-5	styrene	S5
CAS: 107-13-1	acrylonitrile	S7

#### - Directive 2012/18/EU

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

- **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.

#### - Relevant phrases

- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.

- **Department issuing SDS:** ND Industries, Inc. - Safety, Health and Environmental Affairs

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

#### - Classification System:

##### - 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
- 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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LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 2: Flammable liquids – Category 2  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
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.**

- **Disclaimer**

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