



# Safety Data Sheet

according to HPR, Schedule 1

Printing date 01/29/2024

Reviewed on 01/29/2024

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# 1 Identification

# - Product identifier

- Trade name: Vibra-TITE® Methacrylate Adhesives
  - Synonyms: PB500 Low Surface Energy Bonding Resin Part A
  - Part number: VTPB500A
  - Application of the substance / the mixture Adhesives

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

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

- Information department: Product Safety Department

- *Emergency telephone number:* United States: 1-800-424-9300 International: +1-703-527-3887

# 2 Hazard identification

### Classification of the substance or mixture GHS08 Health hazard H334 May cause allergy or asthma symptoms or breathing difficulties if Respiratory Sensitizer - Category 1 inhaled. Reproductive Toxicity - Category 1B H360 May damage fertility or the unborn child. Specific Target Organ Toxicity - Repeated Exposure - Category 1 H372 Causes damage to the respiratory system through prolonged or repeated exposure. GHS05 Corrosion Serious Eye Damage - Category 1 H318 Causes serious eye damage. GHS07 Skin Irritation - Category 2 H315 Causes skin irritation. Skin Sensitizer - Category 1 H317 May cause an allergic skin reaction. Specific Target Organ Toxicity - Single Exposure - Category 3 H335 May cause respiratory irritation. Flammable Liquids - Category 4 H227 Combustible liquid.

- Label elements

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

- Hazard pictograms



- Signal word Danger

### - Hazard-determining components of labeling:

maleic anhydride tetrahydrofurfuryl methacrylate 2-ethylhexyl methacrylate

tetrahydro-2-furylmethanol Monofunctional acid ester

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|-----------------------------------|---|
| - Hazard staten                   |   |
| H227 Combustib                    |   |
| H315 Causes sk                    |   |
|                                   | rious eye damage.   |
|                                   | allergy or asthma symptoms or breathing difficulties if inhaled.  |
|                                   | e an allergic skin reaction.  |
|                                   | ge fertility or the unborn child.   |
|                                   | respiratory irritation.   |
|                                   | mage to the respiratory system through prolonged or repeated exposure.  |
| <ul> <li>Precautionary</li> </ul> |   |
| P210                              | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                |
| P260                              | Do not breathe dust/fume/gas/mist/vapours/spray.  |
| P264                              | Wash thoroughly after handling.   |
| P271                              | Use only outdoors or in a well-ventilated area.   |
| P272                              | Contaminated work clothing should not be allowed out of the workplace.  |
| P280                              | Wear protective gloves/protective clothing/eye protection/face protection.                                    |
| P280                              | Wear protective gloves.   |
| P284                              | [In case of inadequate ventilation] wear respiratory protection.  |
| P304+P340                         | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                    |
| P305+P351+P33                     | 88 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to |
|                                   | do. Continue rinsing.   |
| P310                              | Immediately call a poison center/doctor.  |
| P308+P313                         | IF exposed or concerned: Get medical advice/attention.  |
| P321                              | Specific treatment (see on this label).   |
| P312                              | Call a poison center/doctor if you feel unwell.   |
| P314                              | Get medical advice/attention 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.  |
| P370+P378                         | In case of fire: Use CO2, powder or water spray to extinguish.  |
| P403+P233                         | Store in a well-ventilated place. Keep container tightly closed.  |
| P405                              | Store locked up.  |
| P501                              | Dispose of contents/container in accordance with local/regional/national/international regulations.           |
| Additional inform                 |   |
| 1 % of the mixture of             | onsists of an ingredient or ingredients of unknown acute toxicity   |

4 % of the mixture consists of an ingredient or ingredients of unknown acute toxicity.

# 3 Composition/Information on ingredients

# - Chemical characterization: Mixtures

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

# - Dangerous components:

| CAS: 2455-24-5                    | tetrahydrofurfuryl methacrylate   | 30 - 60% w/w |  |
|-----------------------------------|---|--------------|--|
|                                   | Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Specific Target Organ Toxicity -<br>Single Exposure - Category 3, H335  | -            |  |
| CAS: 20882-04-6 Butane<br>Skin In | Butanedioic acid  | 5 – 10% w/w  |  |
|                                   | Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319  |              |  |
| CAS: 688-84-6                     | 2-ethylhexyl methacrylate   | 3 – 7% w/w   |  |
|                                   | Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317; Specific Target Organ Toxicity - Single Exposure - Category 3, H335; Flammable Liquids - Category 4, H227   | -            |  |
| CAS: 69912-79-4                   | Desiccant   | 1 – 5% w/w   |  |
|                                   | Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Specific Target Organ Toxicity -<br>Single Exposure - Category 3, H335  | -            |  |
| CAS: 108-31-6                     | maleic anhydride  | 1 – 5% w/w   |  |
|                                   | Respiratory Sensitizer - Category 1, H334; Specific Target Organ Toxicity - Repeated Exposure -<br>Category 1, H372; Skin Corrosion - Category 1B, H314; Serious Eye Damage - Category 1, H318;<br>Acute Toxicity (Oral) - Category 4, H302; Skin Sensitizer - Category 1, H317 | -            |  |
|                                   | Monofunctional acid ester   | 0.1 – 1% w/w |  |
|                                   | Acute Toxicity (Dermal) – Category 3, H311; Skin Corrosion - Category 1C, H314; Serious Eye Damage - Category 1, H318; Skin Sensitizer - Category 1, H317   |              |  |
| CAS: 97-99-4                      | tetrahydro-2-furylmethanol  | 0.1 – 1% w/w |  |
|                                   | Reproductive Toxicity - Category 1B, H360; Acute Toxicity (Oral) - Category 4, H302; Eye Irritation - Category 2A, H319; Flammable Liquids - Category 4, H227   |              |  |

# 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.

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Supply fresh air; consult doctor in case of complaints.

- *After skin contact:* Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
  - Most important symptoms and effects, both acute and delayed No further relevant information available. - Indication of any immediate medical attention and special treatment needed
  - No further relevant information available.

### 5 Fire-fighting measures

### - Extinguishing media

- Suitable extinguishing agents: CO2, 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

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). 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:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

# CAS: 108-31-6 maleic anhydride

|             | -                                     |
|-------------|---------------------------------------|
| EL (Canada) | TWA: 0.1 ppm                          |
|             | S(D), S(R)                            |
| EV (Canada) | TWA: 0.1 ppm                          |
| PEL (USA)   | TWA: 1 mg/m <sup>3</sup> , 0.25 ppm   |
| REL (USA)   | TWA: 1 mg/m <sup>3</sup> , 0.25 ppm   |
| TLV (USA)   | TWA: 0.01* mg/m <sup>3</sup>          |
|             | DSEN, RSEN;*inh. fraction + vapor, A4 |
|             |                                       |

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| CAS: 97-99-4 tetrahydro-2-furylmethanol   |  |
|---|--|
| WEEL (USA) TWA: 0.5 ppm   |  |
|   | that were valid during the creation were used as basis.  |
| Exposure controls<br>- Personal protective equipment:   |  |
| - General protective equipment.   |  |
| Keep away from foodstuffs, beverage   |  |
| Immediately remove all soiled and co  | ntaminated clothing.   |
| Wash hands before breaks and at the<br>Avoid contact with the eyes and skin.  | end of work.   |
| - Breathing equipment:  |  |
| In case of brief exposure or low pollut   | ion 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   |  |
| Selection of the glove material on con  | eable and resistant to the product/ the substance/ the preparation.<br>sideration of the penetration times, rates of diffusion and the degradation   |
| - Material of gloves  |  |
| manufacturer to manufacturer. As<br>not be calculated in advance and  | es does not only depend on the material, but also on further marks of quality and varies from<br>the product is a preparation of several substances, the resistance of the glove material can<br>has therefore to be checked prior to the application.   |
| Nitrile rubber, NBR<br>- <b>Penetration time of glove m</b>   | aterial  |
|   | to be found out by the manufacturer of the protective gloves and has to be observed.   |
| - Body protection: Protective work of   | clothing   |
| Physical and chemical properties  |  |
| i iljeleta alla elletileta prepertiee   |  |
|   | amical proportion  |
| Information on basic physical and che   | emical properties  |
| Information on basic physical and che<br>- General Information  | emical properties  |
| Information on basic physical and che   | emical properties  |
| Information on basic physical and che<br>- General Information<br>- Appearance:<br>- Form:<br>- Color:  |  |
| Information on basic physical and che<br>- General Information<br>- Appearance:<br>- Form:<br>- Color:<br>- Odor:   | Pasty<br>According to product specification<br>Characteristic  |
| Information on basic physical and che<br>- General Information<br>- Appearance:<br>- Form:<br>- Color:<br>- Odor:<br>- Odor threshold:  | Pasty<br>According to product specification<br>Characteristic<br>Not determined.   |
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| Information on basic physical and che<br>- General Information<br>- Appearance:<br>- Form:<br>- Color:<br>- Odor:<br>- Odor threshold:<br>- pH-value:<br>- Change in condition<br>- Melting point/Melting range:<br>- Boiling point/Boiling range:<br>- Flash point:  | Pasty<br>According to product specification<br>Characteristic<br>Not determined.<br>Not determined.<br>Undetermined.<br>$\geq 59 - \leq 62 \ ^{\circ}C$<br>$\geq 92 \ ^{\circ}C$   |
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| Information on basic physical and che<br>- General Information<br>- Appearance:<br>- Form:<br>- Color:<br>- Odor:<br>- Odor threshold:<br>- pH-value:<br>- Change in condition<br>- Melting point/Melting range:<br>- Boiling point/Boiling range:<br>- Flash point:<br>- Flammability (solid, gaseous):<br>- Decomposition temperature:<br>- Ignition temperature:<br>- Danger of explosion:   | Pasty<br>According to product specification<br>Characteristic<br>Not determined.<br>Not determined.<br>Undetermined.<br>$\geq 59 - \leq 62 \ ^{\circ}C$<br>$\geq 92 \ ^{\circ}C$<br>Not applicable.<br>Not determined.   |
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|                                       | (Contd. o                                  |
|---------------------------------------|--|
| - Viscosity:                          |  |
| - Dynamic:                            | Not determined.                            |
| - Kinematic:                          | Not determined.                            |
| - Solvent content:                    |  |
| <ul> <li>Organic solvents:</li> </ul> | 0.2 %                                      |
| - VOC content:                        | 0.22 %                                     |
|                                       | ~ 2.4 g/l / ~ 0.02 lb/gal                  |
| - Solids content:                     | 20.2 %                                     |
| Other information                     | No further relevant information available. |

# 10 Stability and reactivity

- Reactivity No further relevant information available.

- Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- Possibility of hazardous reactions No dangerous reactions known.

- Conditions to avoid No further relevant information available.

- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

# 11 Toxicological information

### - Information on toxicological effects

# - Acute toxicity:

| - L      | D/LC50 values that are relevant for classification: |
|----------|---|
| ATE (Acu | ute Toxicity Estimate)                              |
| Oral L   | _D50 11,429 mg/kg (rat)                             |
| Dermal L | LD50 30,000 mg/kg                                   |
| CAS: 108 | 3-31-6 maleic anhydride                             |
| Oral L   | _D50 400 mg/kg (rat)                                |
| Dermal L | _D50 2,620 mg/kg (rabbit)                           |
| Monofun  | nctional acid ester                                 |
| Dermal L | _D50 300 mg/kg (ATE)                                |
| CAS: 97- | 99-4 tetrahydro-2-furylmethanol                     |
| Oral L   | _D50 1,600 mg/kg (rat)                              |
|          |   |

### - Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.

### - Sensitization:

- Sensitization possible through inhalation.
- 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)

None of the ingredients is listed.

# - NTP (National Toxicology Program)

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.

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| - Additional ecological information: |  |
|--------------------------------------|--|
| Conoral notaci                       |  |

### 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

| - UN-Number  |                 |  |
|--|-----------------|--|
| - DOT/TDG, ADR, ADN, IMDG, IATA                              | not regulated   |  |
| - UN proper shipping name<br>- DOT/TDG, ADR, ADN, IMDG, IATA | not regulated   |  |
| - Transport hazard class(es)                                 |                 |  |
| - DOT/TDG, ADR, ADN, IMDG, IATA<br>- Class                   | not regulated   |  |
| - Packing group  |                 |  |
| - DOT/TDG, ADR, IMDG, IATA                                   | not regulated   |  |
| - Environmental hazards:                                     | Not applicable. |  |
| - Special precautions for user                               | Not applicable. |  |
| - Transport in bulk according to Annex II of MA              | ARPOL73/78      |  |
| and the IBC Code   | Not applicable. |  |
| - UN "Model Regulation":                                     | not regulated   |  |

# 15 Regulatory information

Amorphous Silica Soda-Lime Glass Monofunctional acid ester tetrahydro-2-furylmethanol tert-butyl perbenzoate Polymerization inhibitor

- 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: 108-31-6 maleic anhydride
Monofunctional acid ester
- TSCA (Toxic Substances Control Act):
tetrahydrofurfuryl methacrylate
Butanedioic acid
Neoprene polychloroprene
2-ethylhexyl methacrylate
Desiccant
Nipol 1472X
Ethoxylated Bisphenol A Dimethacrylate Esters
maleic anhydride

| acrylate Esters | ACTIVE             |
|-----------------|--------------------|
|                 | ACTIVE             |
|                 | (Contd. on page 7) |

ACTIVE

ACTIVE

ACTIVE ACTIVE

ACTIVE

# Safety Data Sheet according to HPR, Schedule 1

# Trade name: Vibra-TITE® Methacrylate Adhesives

Reviewed on 01/29/2024

| - Callaula      | in substance listings:                        |
|-----------------|---|
| - Cana          | adian Domestic Substances List (DSL)          |
| CAS: 2455-24-5  | tetrahydrofurfuryl methacrylate               |
|                 | Neoprene polychloroprene                      |
| CAS: 688-84-6   | 2-ethylhexyl methacrylate                     |
|                 | Nipol 1472X                                   |
| CAS: 41637-38-1 | Ethoxylated Bisphenol A Dimethacrylate Esters |
| CAS: 108-31-6   | maleic anhydride                              |
| CAS: 67762-90-7 | Amorphous Silica                              |
| CAS: 65997-17-3 | Soda-Lime Glass                               |
|                 | Monofunctional acid ester                     |
| CAS: 97-99-4    | tetrahydro-2-furylmethanol                    |
| CAS: 614-45-9   | tert-butyl perbenzoate                        |
|                 | Polymerization inhibitor                      |
| - Cana          | adian Non-Domestic Substances List (NDSL)     |
| CAS: 20882-04-6 | Butanedioic acid                              |
| - Cana          | adian Ingredient Disclosure list (limit 0.1%) |
| CAS: 108-31-6 m | ialeic anhydride                              |
| - Cana          | adian Ingredient Disclosure list (limit 1%)   |
| CAS: 2455-24-5  | tetrahydrofurfuryl methacrylate               |
| CAS: 688-84-6   | 2-ethylhexyl methacrylate                     |

### 16 Other information

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

- Department issuing SDS: ND Industries, Inc. Safety, Health and Environmental Affaires
- Contact: Safety. Health and Environmental Affaires
- Classification System:

- HMIS-ratings (scale 0 - 4)



- NFPA ratings (scale 0 - 4)



- Date of the latest revision of the safety data sheet 01/29/2024

#### - Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

### - Disclaimer

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