

12.05.2021

Kit components

Product code	Description
VTPB422	Vibra-TITE® Methacrylate Adhesives PB422 Medium Set Time - Structural

Components:

VTPB422A	Vibra-TITE® Methacrylate Adhesives PB422 Medium Set Time - Structural - Part A
VTPB422B	Vibra-TITE® Methacrylate Adhesives PB422 Medium Set Time - Structural - Part B

Safety Data Sheet according to WHS Regulations

Printing date 12.05.2021

Version number 24

Revision: 12.05.2021

1 Identification

- Product identifier

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

- **Article number:** VTPB422A

- 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

Eye Dam. 1 H318 Causes serious eye damage.



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 GHS05 GHS07

- **Signal word** Danger

- Hazard-determining components of labelling:

methyl methacrylate
Methacrylic acid
Rosin
Monofunctional acid ester

- Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

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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.

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.

- Additional information:

2 % of the mixture consists of component(s) of unknown toxicity.

Contains 2 % of components with unknown hazards to the aquatic environment.

- 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	69.50%
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	4.30%
CAS: 41637-38-1	Ethoxylated Bisphenol A Dimethacrylate Esters Aquatic Chronic 4, H413	1 – 4%
CAS: 99-97-8	N,N-dimethyl-p-toluidine Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Carc. 2, H351; STOT RE 2, H373	≥ 0.1 – ≤ 1%
CAS: 8050-09-7	Rosin Skin Sens. 1, H317	≥ 0.1 – < 1%
	Monofunctional acid ester Acute Tox. 3, H311; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Sens. 1, H317	≥ 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**- After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

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

No further relevant information available.

5 Fire Fighting Measures

- Extinguishing media- **Suitable extinguishing agents:** CO₂, 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.

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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 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/m³, 100 ppmLong-term value: 208 mg/m³, 50 ppm

Sen

CAS: 79-41-4 Methacrylic acid

WES Long-term value: 70 mg/m³, 20 ppm

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

- Exposure controls

- Personal protective equipment:

- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- 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.

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Nitrile rubber, NBR

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Body protection: Protective work clothing

9 Physical and Chemical Properties

- Information on basic physical and chemical properties

- General Information

- Appearance:

- Form: Viscous

- Colour: Whitish

- Odour: Pungent

- Odour threshold: Not determined.

- pH-value: Not determined.

- 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: Not determined.

- 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: Not determined.

- Kinematic at 20 °C: 180,000 mm²/s

- Solvent content:

- Organic solvents: 0.2 %

- Water: 0.0 %

- VOC (EC) 0.16 %

- Solids content: 23.2 %

- 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.

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11 Toxicological Information

- Information on toxicological effects

- Acute toxicity

- LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	10,836 mg/kg
Dermal	LD50	8,876 mg/kg
Inhalative	LC50/4 h	169 mg/l

CAS: 80-62-6 methyl methacrylate

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

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

CAS: 99-97-8 N,N-dimethyl-p-toluidine

Oral	LD50	100 mg/kg (ATE)
Dermal	LD50	300 mg/kg (ATE)
Inhalative	LC50/4 h	3 mg/l (ATE)

Monofunctional acid ester

Dermal	LD50	300 mg/kg (ATE)
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- Primary irritant effect:

- **Skin corrosion/irritation** Irritant to skin and mucous membranes.

- **Serious eye damage/irritation** 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

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- Transport hazard class(es)	
- ADG, IMDG, IATA	
	
- Class	3 Flammable liquids.
- Label	3
- Packing group	
- ADG, IMDG, IATA	
III	
- Environmental hazards:	Not applicable.
- Special precautions for user	
Warning: Flammable liquids.	
- Hazard identification number (Kemler code):	-
- EMS Number:	F-E,S-D
- Segregation groups	Acids
- Stowage Category	A
- Transport in bulk according to Annex II of Marpol and the IBC Code	
Not applicable.	
- Transport/Additional information:	
- ADG	
- 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
- IMDG	
- 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
- UN "Model Regulation":	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: 9010-98-4	Neoprene rubber
CAS: 79-41-4	Methacrylic acid
CAS: 41637-38-1	Ethoxylated Bisphenol A Dimethacrylate Esters
CAS: 99-97-8	N,N-dimethyl-p-toluidine
CAS: 8050-09-7	Rosin
CAS: 57-55-6	propane-1,2-diol
	Polymerization inhibitor
CAS: 14807-96-6	Soapstone
CAS: 130-15-4	1,4-naphthoquinone
CAS: 7732-18-5	Deionized water
CAS: 64-02-8	tetrasodium ethylenediaminetetraacetate

- 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

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- **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.
 H301 Toxic if swallowed.
 H302 Harmful if swallowed.
 H311 Toxic 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.
 H331 Toxic if inhaled.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 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.
 H413 May cause long lasting harmful effects to aquatic life.

- **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
 Acute Tox. 4: Acute toxicity – Category 4
 Acute Tox. 3: Acute toxicity – Category 3
 Skin Corr. 1A: Skin corrosion/irritation – Category 1A
 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
 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
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

- * **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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Printing date 12.05.2021

Version number 15

Revision: 30.03.2021

1 Identification

- Product identifier

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

- **Article number:** VTPB422B

- 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/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

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



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4	H332 Harmful if inhaled.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	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 labelled according to the Globally Harmonised System (GHS).

- Hazard pictograms



GHS07 GHS09

- **Signal word** Warning

- Hazard-determining components of labelling:

Bisphenol-A epoxy resin
branched C10-alkyl benzoates
benzoyl peroxyde
dimethylbenzyl hydroperoxide

- Hazard statements

H332 Harmful if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

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H411 Toxic to aquatic life with long lasting effects.

- Precautionary statements

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves.
 P280 Wear eye protection / face protection.
 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.
 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: 25068-38-6	Bisphenol-A epoxy resin Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	50 – 59%
CAS: 94-36-0	benzoyl peroxyde Org. Perox. B, H241; Eye Irrit. 2, H319; Skin Sens. 1, H317	20 – 29%
CAS: 131298-44-7	branched C10-alkyl benzoates Acute Tox. 4, H332	5 – 9%
CAS: 1317-65-3	Calcium Carbonate Skin Irrit. 2, H315	5 – 9%
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	≥ 2.5 – < 3%
CAS: 557-05-1	zinc distearate STOT SE 3, H335	1 – 4%
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	≥ 0.25 – ≤ 1%

- **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:**

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

- After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

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

- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire Fighting Measures

- Extinguishing media

- **Suitable extinguishing agents:** 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:**

Mouth respiratory protective device.

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:

Inform respective authorities in case of seepage into water course or sewage system.

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 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: 98-82-8 cumene

WES Short-term value: 375 mg/m³, 75 ppmLong-term value: 125 mg/m³, 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.

- 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

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Trade name: Vibra-TITE® Methacrylate Adhesives

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- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Body protection: Protective work clothing

9 Physical and Chemical Properties

- Information on basic physical and chemical properties

- General Information

- Appearance:

- Form: Viscous

- Colour: Whitish

- Odour: Pungent

- Odour threshold: Not determined.

- pH-value: Not determined.

- Change in condition

- Melting point/freezing point: Undetermined.

- Initial boiling point and boiling range: ≥ 260 °C

- Flash point: 84 °C

- Flammability (solid, gas): Not applicable.

- Decomposition temperature: Not determined.

- Auto-ignition temperature: Product is not selfigniting.

- Explosive properties: Product does not present an explosion hazard.

- Explosion limits:

- Lower: Not determined.

- Upper: Not determined.

- Vapour pressure at 20 °C: < 1 hPa

- Density at 20 °C: ~ 0.96 g/cm³

- 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: 80,000 mPas

- Kinematic: Not determined.

- Solvent content:

- Organic solvents: 0.3 %

- VOC (EC) 0.30 %

- Solids content: 46.2 %

- 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.

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Version number 15

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Trade name: Vibra-TITE® Methacrylate Adhesives

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11 Toxicological Information

- Information on toxicological effects

- Acute toxicity

- LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	15,159 mg/kg (rat)
Dermal	LD50	19,841 mg/kg (rat)
Inhalative	LC50/4 h	18.8 mg/l

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

Inhalative	LC50/4 h	1.5 mg/l (ATE)
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CAS: 80-15-9 dimethylbenzyl hydroperoxide

Oral	LD50	382 mg/kg (rat)
Dermal	LD50	500 mg/kg (rat)
Inhalative	LC50/4 h	220 mg/l (rat)

CAS: 557-05-1 zinc distearate

Oral	LD50	10,000 mg/kg (rat)
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CAS: 98-82-8 cumene

Oral	LD50	1,400 mg/kg (rat)
Dermal	LD50	12,300 mg/kg (rabbit)
Inhalative	LC50/4 h	24.7 mg/l (mouse)

- Primary irritant effect:

- **Skin corrosion/irritation** Irritant to skin and mucous membranes.

- **Serious eye damage/irritation** 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:

Harmful

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.

- Ecotoxicological effects:

- **Remark:** Toxic for fish

- Additional ecological information:

- General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

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

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- Results of PBT and vPvB assessment

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- Waste treatment methods

- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:

- **Recommendation:** Disposal must be made according to official regulations.

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14 Transport information	
- UN-Number - ADG, IMDG, IATA	UN3082
- UN proper shipping name - ADG - IMDG - IATA	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol-A-(epichlorhydrin); epoxy resin) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol-A-(epichlorhydrin); epoxy resin), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol-A-(epichlorhydrin); epoxy resin)
- Transport hazard class(es) - ADG, IMDG, IATA	
 - Class - Label	9 Miscellaneous dangerous substances and articles. 9
- Packing group - ADG, IMDG, IATA	III
- Environmental hazards: - Marine pollutant:	Product contains environmentally hazardous substances: bisphenol-A-(epichlorhydrin); epoxy resin Yes Symbol (fish and tree)
- Special marking (ADG): - Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
- Special precautions for user - Hazard identification number (Kemler code): - EMS Number: - Stowage Category	Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F A
- Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
- Transport/Additional information:	
- ADG - Limited quantities (LQ) - Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- Transport category - Tunnel restriction code	3 -
- IMDG - Limited quantities (LQ) - Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL-A-(EPICHLORHYDRIN); EPOXY RESIN), 9, III

15 Regulatory information	
- Safety, health and environmental regulations/legislation specific for the substance or mixture	
- Australian Inventory of Industrial Chemicals	
All ingredients are listed.	
- Standard for the Uniform Scheduling of Medicines and Poisons	
CAS: 94-36-0 benzoyl peroxyde	S2, S4, S5
- Australia: Priority Existing Chemicals	
None of the ingredients is listed.	

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- Directive 2012/18/EU

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** E2 Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 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

H226 Flammable liquid and vapour.
 H241 Heating may cause a fire or explosion.
 H242 Heating may cause a fire.
 H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 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.
 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. 3: Flammable liquids – Category 3
 Self-react. F: Self-reactive substances and mixtures – Type E/F
 Org. Perox. B: Organic peroxides – Type B
 Org. Perox. E: Organic peroxides – Type E/F
 Acute Tox. 3: Acute toxicity – Category 3
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 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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