01/26/2024 Kit Components	
Product code	Description
VTPB422	Vibra-TITE® Methacrylate Adhesives PB422 Medium Set Time - Structural
Components:	
VTPB422A	Vibra-TITE® Methacrylate Adhesives
VTPB422B	Vibra-TITE® Methacrylate Adhesives





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Safety Data Sheet acc. to OSHA HCS

Printing date 01/26/2024 Reviewed on 01/26/2024

1 Identification

- Product identifier
 - Trade name: Vibra-TITE® Methacrylate Adhesives
 - Synonyms: PB422 Medium Set Time Structural Part A
 - Part number: VTPB422A
 - Application of the substance / the mixture Adhesives
- Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

ND Industries, Inc 1000 North Crooks Road Clawson, MI 48017 USA

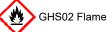
Telephone: +1-248-288-0000 Email: info@ndindustries.com Website: www.ndindustries.com

- Information department: Product Safety Department
- Emergency telephone number:

United States: 1-800-424-9300 International: +1-703-527-3887

2 Hazard(s) identification

- Classification of the substance or mixture



Flammable Liquids 2



GHS08 Health hazard

Carcinogenicity 2 H351 Suspected of causing cancer.



Eye Damage 1 H318 Causes serious eye damage.



Skin Irritation 2 H315 Causes skin irritation.

Sensitization - Skin 1 H317 May cause an allergic skin reaction. Specific Target Organ Toxicity - Single Exposure 3 H335 May cause respiratory irritation.

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

H225 Highly flammable liquid and vapor.

- Hazard pictograms









GHS02 GHS05 GHS07 GHS08

- Signal word Danger
- Hazard-determining components of labeling:

methyl methacrylate Methacrylic acid N,N-dimethyl-p-toluidine Rosin Monofunctional acid ester

- Hazard statements

H225 Highly flammable liquid and vapor.

Safety Data Sheet

Printing date 01/26/2024 Reviewed on 01/26/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 1)

H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H335 May cause respiratory irritation.

- Precautionary statements

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

P242 Use only non-sparking tools.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

P280 Wear protective gloves.

P280 Wear eye protection / face protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P310 Immediately call a poison center/doctor.
P321 Specific treatment (see on this label).
P312 Call a poison center/doctor if you feel unwell.
P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Additional information:

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

- Other hazards

- Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

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

- Dangerous	s components:	
CAS: 80-62-6	methyl methacrylate Flammable Liquids 2, H225; Skin Irritation 2, H315; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	69.50%
CAS: 79-41-4	Methacrylic acid Acute Toxicity - Dermal 3, H311; Skin Corrosion 1A, H314; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Acute Toxicity - Inhalation 4, H332; Specific Target Organ Toxicity - Single Exposure 3, H335; Flammable Liquids 4, H227	4.30%
CAS: 99-97-8	N,N-dimethyl-p-toluidine Acute Toxicity - Oral 3, H301; Acute Toxicity - Dermal 3, H311; Acute Toxicity - Inhalation 3, H331; Carcinogenicity 2, H351; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Flammable Liquids 4, H227	≤ 1%
CAS: 8050-09-7	Rosin Sensitization - Skin 1, H317	≤ 1%
	Monofunctional acid ester Acute Toxicity - Dermal 3, H311; Skin Corrosion 1C, H314; Eye Damage 1, H318; Sensitization - Skin 1, H317	≤ 1%

4 First-aid measures

- Description of first aid measures

- After inhalation:

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

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

Supply fresh air; consult doctor in case of complaints.

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

Printing date 01/26/2024 Reviewed on 01/26/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 2)

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

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources

Wear protective clothing.

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Dispose of the collected material according to regulations.

- Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- Handling:
 - Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- Conditions for safe storage, including any incompatibilities
 - Storage:
 - Requirements to be met by storerooms and receptacles: No special requirements.
 - Information about storage in one common storage facility: Not required.
 - Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.
- Control parameters
 - Components with limit values that require monitoring at the workplace:

At this time, the remaining constituent has no known exposure limits.

CAS: 80-62-6 methyl methacrylate PEL Long-term value: 410 mg/m³, 100 ppm REL Long-term value: 100 ppm Long-term value: 50 ppm DSEN, A4 CAS: 79-41-4 Methacrylic acid REL Long-term value: 70 mg/m³, 20 ppm Skin TLV Long-term value: 20 ppm CAS: 99-97-8 N,N-dimethyl-p-toluidine WEEL Long-term value: 0.5 ppm

Printing date 01/26/2024 Reviewed on 01/26/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 3)

CAS: 8050-09-7 Rosin

Long-term value: 0.001* mg/m³ *inhalable fraction, DSEN, RSEN

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

- Exposure controls

- Personal protective equipment:

- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

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

Nitrile rubber, NBR

- Penetration time of glove material

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

- Body protection: Protective work clothing

9 Physical and chemical properties

- Information on basic physical and chemical properties		
- General Information		
- Appearance:) <i>(</i>	
- Form: - Color:	Viscous	
	Whitish	
- Odor: - Odor threshold:	Pungent	
- Odor threshold:	Not determined.	
- pH-value:	Not determined.	
- Change in condition		
 Melting point/Melting range: 	Undetermined.	
 Boiling point/Boiling range: 	≥ 101 °C (≥ 213.8 °F)	
- Flash point:	10 °C (50 °F)	
- Flammability (solid, gaseous):	Highly flammable.	
- Auto igniting:	430 °C (806 °F)	
- Decomposition temperature:	Not determined.	
- Ignition temperature:	Product is not selfigniting.	
- Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.	
- Explosion limits:		
- Lower:	2.1 Vol %	
- Upper:	12.5 Vol %	
- Vapor pressure at 20 °C (68 °F):	≤ 47 hPa (≤ 35.3 mm Hg)	
- Density:	Not determined.	
- Relative density	Not determined.	
- Vapor density	Not determined.	
- Evaporation rate	Not determined.	

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Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 4)

 Solubility in / Miscibility with Water: 	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/wat	ter): Not determined.
- Viscosity:	
- Dynamic:	Not determined.
- Kinematic at 20 °C (68 °F):	180,000 mm²/s
- Solvent content:	
- Organic solvents:	0.2 %
- Water:	0.0 %
- VOC content:	0.16 %
	1.6 g/l / 0.01 lb/gal
- 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.

11 Toxicological information

- Information on toxicological effects

- Acute toxicity:

- LD/LC50 values that are relevant for classification:			
ATE (Acu	ATE (Acute Toxicity Estimate)		
Oral	LD50	10,836 mg/kg	
Dermal	LD50	8,876 mg/kg	
Inhalative	LC50/4 h	169 mg/l	
CAS: 80-6	2-6 methy	/I methacrylate	
Oral	LD50	7,872 mg/kg (rat)	
CAS: 79-4	: 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: 99-9	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)	
Monofund	Monofunctional acid ester		
Dermal	LD50	300 mg/kg (ATE)	
		site at affect.	

- Primary irritant effect:
 - on the skin: Irritant to skin and mucous membranes.
 - on the eye: Irritating effect.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)		
CAS: 80-62-6	methyl methacrylate	3
CAS: 9010-98-4	Neoprene rubber	3
CAS: 99-97-8	N,N-dimethyl-p-toluidine	2B
CAS: 14807-96-6	Soapstone	3

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Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 5)

- NTP (National Toxicology Program)	
CAS: 130-15-4 1,4-naphthoquinone	R
- OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	

12 Ecological information

- Toxicity
 - Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
 - Bioaccumulative potential No further relevant information available.
 - Mobility in soil No further relevant information available.
- Additional ecological information:
 - General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
 - PBT: Not applicable.
 - vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
 - Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
 - Recommendation: Disposal must be made according to official regulations.

Necommendation. Disposal must be made according to official regulations.			
14 Transport information			
- UN-Number - DOT, IMDG, IATA	UN1133		
- UN proper shipping name - DOT - IMDG, IATA	Adhesives ADHESIVES		
- Transport hazard class(es)			
- DOT			
T INDUSTRIES			
- Class	3 Flammable liquids		
- Label	3		
- IMDG, IATA			
- Class	3 Flammable liquids		
- Label	3		
- Packing group - DOT, IMDG, IATA	III		
- Environmental hazards:	Not applicable.		
- Special precautions for user - Hazard identification number (Kemler code): - EMS Number:	Warning: Flammable liquids - F-E,S-D		
Segregation groupsStowage Category	(SGG1) Acids A		

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Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 6)

- Transport in bulk according to Annex II of MARPOL73/78		
and the IBC Code	Not applicable.	
- Transport/Additional information:		
- DOT		
- Quantity limitations	On passenger aircraft/rail: 60 L	
	On cargo aircraft only: 220 L	
- IMDG		
- Limited quantities (LQ)	5L	
- Excepted quantities (ÉQ)	Code: E1	
,	Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 1000 ml	
- UN "Model Regulation":	UN 1133 ADHESIVES, 3, III	

15 Regulatory information

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

- Se	ection 355 (extremely hazardous substances):		
None of the ing	gredients is listed.		
- Se	ction 313 (Specific toxic chemical listings):		
CAS: 80-62-6	methyl methacrylate		
	Monofunctional acid ester		
- TSCA	(Toxic Substances Control Act):		
All components	All components have the value ACTIVE.		
- Ha	- Hazardous Air Pollutants		
CAS: 80-62-6	methyl methacrylate		
CAS: 130-15-4	1,4-naphthoquinone		
- Pronc	- Proposition 65		

- Proposition 65

•	
- Ci	hemicals known to cause cancer:
	Impact modifying resin
CAS: 99-97-8	N,N-dimethyl-p-toluidine

- Chemicals known to cause reproductive toxicity for females:

CAS: 41637-38-1 Ethoxylated Bisphenol A Dimethacrylate Esters

Monofunctional acid ester

- Chemicals known to cause reproductive toxicity for males:

Impact modifying resin

Monofunctional acid ester

- Chemicals known to cause developmental toxicity:

CAS: 41637-38-1 Ethoxylated Bisphenol A Dimethacrylate Esters

Monofunctional acid ester

- Carcinogenic categories

	gome categories		
- EPA	(Environmental Protection Agency)		
CAS: 80-62-6 me	ethyl methacrylate	E, NL	
- TLV	(Threshold Limit Value)		
CAS: 80-62-6	methyl methacrylate	A4	
CAS: 14807-96-6	Soapstone	A4	
- NIOS	SH-Ca (National Institute for Occupational Safety and Health)		
None of the ingre	dients is listed.		
- Chemical safe	- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.		

16 Other information

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

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

Printing date 01/26/2024 Reviewed on 01/26/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 7)

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



- NFPA ratings (scale 0 - 4)



Health = 3 Fire = 3 Reactivity = 0

- Date of preparation / last revision 01/26/2024
- Abbreviations and acronyms:

ADR; Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by

Road)
IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flammable Liquids 2: Flammable liquids – Category 2

Flammable Liquids 2: Hammable liquids — Category 2
Flammable Liquids 4: Flammable liquids — Category 4
Acute Toxicity - Oral 4: Acute toxicity — Category 4
Acute Toxicity - Dermal 3: Acute toxicity — Category 3
Skin Corrosion 1A: Skin corrosion/irritation — Category 1A

Skin Corrosion 1C: Skin corrosion/irritation - Category 1C

Skin Irritation 2: Skin corrosion/irritation – Category 2
Eye Damage 1: Serious eye damage/eye irritation – Category 1

Sensitization - Skin 1: Skin sensitisation - Category 1 Carcinogenicity 2: Carcinogenicity - Category 2

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) - Category 2

- * Data compared to the previous version altered.

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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Safety Data Sheet acc. to OSHA HCS

Printing date 01/26/2024 Reviewed on 01/26/2024

1 Identification

- Product identifier
 - Trade name: Vibra-TITE® Methacrylate Adhesives
 - Synonyms: PB422 Medium Set Time Structural Part B
 - Part number: VTPB422B
 - Application of the substance / the mixture Adhesives
- Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

ND Industries, Inc 1000 North Crooks Road Clawson, MI 48017 USA

Telephone: +1-248-288-0000 Email: info@ndindustries.com Website: www.ndindustries.com

- Information department: Product Safety Department
- Emergency telephone number:

United States: 1-800-424-9300 International: +1-703-527-3887

2 Hazard(s) identification

- Classification of the substance or mixture



Carcinogenicity 2



Acute Toxicity - Inhalation 4		Harmful if inhaled.
Skin Irritation 2		Causes skin irritation.
Eye Irritation 2A		Causes serious eye irritation.
Sensitization - Skin 1		May cause an allergic skin reaction.
Specific Target Organ Toxicity - Single Exposure 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
Flammable Liquids 4	H227	Combustible liquid.

Suspected of causing cancer.

- Label elements

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

H351

- Hazard pictograms





GHS07 GHS08

- Signal word Warning
- Hazard-determining components of labeling:

Bisphenol-A epoxy resin dimethylbenzyl hydroperoxide Cumene

benzoyl peroxyde

- Hazard statements

H227 Combustible liquid. H302+H332 Harmful if swallowed or if inhaled.

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

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Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 1)

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

- /	Р	re	ca	ut	ÌΟ	n	ar	ν	Si	tai	te	m	e	nt	้ร
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Keep away from flames and hot surfaces. - No smoking. P210

Wash thoroughly after handling. P264

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection.

P280 Wear protective gloves.

P280 Wear eye protection / face protection.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P330 Rinse mouth

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.

P308+P313 IF exposed or concerned: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. P362+P364 P332+P313 If skin irritation occurs: Get medical advice/attention. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P321 Specific treatment (see on this label). P337+P313 If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse. P363 P403+P233 Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool.

P403+P235

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

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

CAS: 25068-38-6	Bisphenol-A epoxy resin	50 - 59%
	Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	
CAS: 94-36-0	benzoyl peroxyde	20 – 29%
	Organic Peroxides - Type B, H241; Eye Irritation 2A, H319; Sensitization - Skin 1, H317	
CAS: 131298-44-7	branched C10-alkyl benzoates	5 – 9%
	Acute Toxicity - Inhalation 4, H332	
CAS: 1317-65-3	Calcium Carbonate	5 – 9%
	Skin Irritation 2, H315	
CAS: 80-15-9	dimethylbenzyl hydroperoxide	1 – 4%
	Self-reactive substances and mixtures - Type F, H242; Organic Peroxides - Type E, H242; Acute Toxicity - Inhalation 3, H331; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304; Skin Corrosion 1B, H314; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Specific Target Organ Toxicity - Single Exposure 3, H335; Flammable Liquids 4, H227	
CAS: 557-05-1	zinc distearate	1 – 4%
	Specific Target Organ Toxicity - Single Exposure 3, H335	
CAS: 98-82-8	Cumene	≤ 1%
	Flammable Liquids 3, H226; Carcinogenicity 2, H351; Aspiration Hazard 1, H304; Acute Toxicity - Oral 4, H302; Specific Target Organ Toxicity - Single Exposure 3, H335	

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.

Safety Data Sheet

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Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 2)

- 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.

Wear fully protective suit.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep away from ignition sources

Wear protective clothing.

- Environmental precautions:

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

Do not allow to enter sewers/ surface or ground water.

- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

- Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- Handling:

- Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- Information about protection against explosions and fires: No special measures required.

- Conditions for safe storage, including any incompatibilities

- Storage:
 - Requirements to be met by storerooms and receptacles: No special requirements.
 - Information about storage in one common storage facility: Not required.
 - Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.

- Control parameters

- Components with limit values that require monitoring at the workplace:

At this time, the other constituents have no known exposure limits.

CAS: 80-15-9 dimethylbenzyl hydroperoxide WEEL Long-term value: 6 mg/m³, 1 ppm Skin CAS: 557-05-1 zinc distearate PEL Long-term value: 15* 5** mg/m³ *total dust **respirable fraction REL Long-term value: 10* 5** mg/m³ *total dust **respirable fraction TLV Long-term value: 10* 3** mg/m³ *inhalable, **respirable particulate matter, *A4

Safety Data Sheet

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Trade name: Vibra-TITE® Methacrylate Adhesives

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

TLV TLV withdrawn

CAS: 98-82-8 Cumene

PEL Long-term value: 245 mg/m³, 50 ppm Skin

REL Long-term value: 245 mg/m³, 50 ppm Skin

TLV Long-term value: 5 ppm A3

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

- Exposure controls

- Personal protective equipment:

- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

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

Nitrile rubber, NBR

- Penetration time of glove material

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

- Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physical and che	emical properties	
- General Information		
- Appearance:		
- Form:	Viscous	
- Color:	Whitish	
- Odor:	Pungent	
- Odor threshold:	Not determined.	
- pH-value:	Not determined.	
- Change in condition		
 Melting point/Melting range: 	Undetermined.	
 Boiling point/Boiling range: 	≥ 260 °C (≥ 500 °F)	
- Flash point:	84 °C (183.2 °F)	
- Flammability (solid, gaseous):	May cause fire.	
- Decomposition temperature:	Not determined.	
- Ignition temperature:	Product is not selfigniting.	
- Danger of explosion:	Not determined.	
- Explosion limits:		
- Lower:	Not determined.	
- Upper:	Not determined.	
- Vapor pressure at 20 °C (68 °F):	< 1 hPa (< 0.8 mm Hg)	
- Density at 20 °C (68 °F):	~ 0.96 g/cm³ (~ 8.0112 lbs/gal)	
- Relative density	Not determined.	

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Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 4)

- Vapor density	Not determined.
- Evaporation rate	Not determined.
- Solubility in / Miscibility with	
- Water:	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/w	vater): Not determined.
- Viscosity:	
- Dynamic at 20 °C (68 °F):	80,000 mPas
- Kinematic:	Not determined.
- Solvent content:	
- Organic solvents:	0.3 %
- VOC content:	0.30 %
	~ 2.9 g/l / ~ 0.02 lb/gal
- Solids content:	36.2 %
- 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:

7.00.0	CONTENT	•				
- LI	D/LC50 v	alues that are relevant for classification:				
ATE (Acut	te Toxicity	Estimate)				
Oral	LD50	15,159 mg/kg (rat)				
Dermal	LD50	19,841 mg/kg (rat)				
Inhalative	LC50/4 h	18.7 mg/l				
CAS: 1312	298-44-7 b	ranched C10-alkyl benzoates				
Inhalative	LC50/4 h	1.5 mg/l (ATE)				
CAS: 80-1	5-9 dimet	hylbenzyl 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)				
CAS: 98-8	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)				
- Pi	rimarv irr	itant effect:				

- - on the skin: Irritant to skin and mucous membranes.
 - on the eye: Irritating effect.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)		
CAS: 94-36-0	benzoyl peroxyde	3
CAS: 69012-64-2	Silica-Amorphous Silica fume	3
		(04-1 0)

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		(Contd. of page 5		
CAS: 98-82-8	Cumene	2B		
CAS: 128-37-0	Butylated hydroxytoluene	3		
- NTF	(National Toxicology Program)			
CAS: 98-82-8 C	AS: 98-82-8 Cumene			
- OSF	HA-Ca (Occupational Safety & Health Administration)			
None of the ingre	edients 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.
- Ecotoxical effects:
 - Remark: Toxic for fish
- Additional ecological information:
 - General notes:

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

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

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

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 of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
 - Recommendation: Disposal must be made according to official regulations.

* 14 Transport information

- UN-Number - DOT, IMDG, IATA	UN3082
, ,	0143002
- UN proper shipping name	
- DOT	Environmentally hazardous substance, liquid, n.o.s. (bisphenol-A-(epichlorhydrin); epoxy resin)
- IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol-A-(epichlorhydrin); epoxy resin), MARINE POLLUTANT
- IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol-A-(epichlorhydrin); epoxy resin)
- Transport hazard class(es)	
- DOT, IMDG, IATA	
- Class	9 Miscellaneous dangerous substances and articles
- Label	9
- Packing group	
- DOT, IMDG, IATA	III
- Environmental hazards:	Product contains environmentally hazardous substances: bisphenol-A-(epichlorhydrin); epoxy resin
- Marine pollutant:	Yes Symbol (fish and tree)

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Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 6)

- Special marking (IATA):	Symbol (fish and tree)
- Special precautions for user - Hazard identification number (Kemler code):	Warning: Miscellaneous dangerous substances and articles 90
- EMS Number:	F-A,S-F
- Stowage Category	A
- Transport in bulk according to Annex II of MARPOL73	/78
and the IBC Code	Not applicable.
- Transport/Additional information:	
- DOT	
- Quantity limitations	On passenger aircraft/rail: 450 L On cargo aircraft only: 450 L
- Remarks:	Special marking with the symbol (fish and tree).
- 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 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 No further relevant information available.

- Sara

- Sara	
- Se	ction 355 (extremely hazardous substances):
None of the ing	redients is listed.
- Se	ction 313 (Specific toxic chemical listings):
CAS: 94-36-0	benzoyl peroxyde
CAS: 80-15-9	dimethylbenzyl hydroperoxide
CAS: 557-05-1	zinc distearate
CAS: 98-82-8	Cumene
- TSCA	(Toxic Substances Control Act):
All components	have the value ACTIVE.
- Ha	zardous Air Pollutants
CAS: 98-82-8	Cumene
	aldian OF

- Proposition 65

- Chemicals known to cause cancer:

CAS: 98-82-8 Cumene

- Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

- Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- Carcinogenic categories

- EP	A (Environmental Protection Agency)		
CAS: 557-05-1	zinc distearate	D, I,	, II
CAS: 98-82-8	Cumene	D, C	CBD
- TL	V (Threshold Limit Value)		
CAS: 94-36-0	benzoyl peroxyde		A4
CAS: 128-37-0	Butylated hydroxytoluene		A4
- NIC	OSH-Ca (National Institute for Occupational Safety and Health)		
None of the ing	redients is listed.		
		(Contd. on n	anna 8

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Trade name: Vibra-TITE® Methacrylate Adhesives

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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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)



Health = 2 Fire = 2Reactivity = 0

- Date of preparation / last revision 01/26/2024
- Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit Flammable Liquids 3: Flammable liquids – Category 3

Flammable Liquids 4: Flammable liquids - Category

Self-reactive substances and mixtures - Type F: Self-reactive substances and mixtures - Type E/F

Organic Peroxides - Type B: Organic peroxides - Type B
Organic Peroxides - Type E: Organic peroxides - Type B
Acute Toxicity - Inhalation 3: Acute toxicity - Category 3

Acute Toxicity - Inhalation 4: Acute toxicity - Category 4 Skin Corrosion 1B: Skin corrosion/irritation - Category 1B

Skin Irritation 2: Skin corrosion/irritation - Category 2

Eye Damage 1: Serious eye damage/eye irritation – Category 1 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Sensitization - Skin 1: Skin sensitisation - Category 1

Carcinogenicity 2: Carcinogenicity – Category 2

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) - Category 2
Aspiration Hazard 1: Aspiration hazard - Category 1

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

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