01/29/2024	Kit Components	
Product code	Description	
VTPB420	Vibra-TITE® Methacrylate Adhesives PB420 All Purpose - Fast Set Time; High Strength	
Components:		
VTPB420A-Obsolete	Vibra-TITE® Methacrylate Adhesives	

VTPB420B

Vibra-TITE® Methacrylate Adhesives





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Safety Data Sheet according to HPR, Schedule 1

Printing date 01/29/2024 Reviewed on 01/29/2024

1 Identification

- Product identifier
 - Trade name: Vibra-TITE® Methacrylate Adhesives
 - Synonyms: PB420 All Purpose Fast Set Time; High Strength Part A
 - Part number: VTPB420A-Obsolete
 - 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



Flammable Liquids - Category 2

H225 Highly flammable liquid and vapour.



GHS08 Health hazard

Carcinogenicity – Category 2 H351 Suspected of causing cancer.

Specific Target Organ Toxicity - Repeated Exposure - Category 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS05 Corrosion

Serious Eye Damage - Category 1 H318 Causes serious eye damage.



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.

- Label elements

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









GHS02 GHS05 GHS07 GHS08

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

methyl methacrylate Methacrylic acid N,N-dimethyl-p-toluidine (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate Rosin

Printing date 01/29/2024 Reviewed on 01/29/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 1)

Monofunctional acid ester

- Hazard statements

H225 Highly flammable liquid and vapour.

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.

H373 May cause damage to organs through prolonged or repeated exposure.

- Precautionary statements

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

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

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

P242 Use non-sparking tools.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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.

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

3 Composition/Information on ingredients

- Chemical characterization: Mixtures

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

- Dangerous	components:	
CAS: 80-62-6	methyl methacrylate Flammable Liquids - Category 2, H225; Skin Irritation - Category 2, H315; Skin Sensitizer - Category 1, H317; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	45 – 70% w/w
CAS: 79-41-4	Methacrylic acid Acute Toxicity (Dermal) – Category 3, H311; Skin Corrosion - Category 1A, H314; Serious Eye Damage - Category 1, H318; Acute Toxicity (Oral) - Category 4, H302; Acute Toxicity (Inhalation) - Category 4, H332; Specific Target Organ Toxicity - Single Exposure - Category 3, H335; Flammable Liquids - Category 4, H227	1 – 5% w/w
CAS: 24448-20-2	(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1B, H317	1 – 5% w/w
CAS: 99-97-8	N,N-dimethyl-p-toluidine Acute Toxicity (Oral) - Category 3, H301; Acute Toxicity (Dermal) - Category 3, H311; Acute Toxicity (Inhalation) - Category 3, H331; Carcinogenicity - Category 2, H351; Specific Target Organ Toxicity - Repeated Exposure - Category 2, H373; Flammable Liquids - Category 4, H227	0.5 – 1.5% w/v
CAS: 8050-09-7	Rosin Skin Sensitizer - Category 1, H317	0.1 – 1% w/w
	Monofunctional acid ester Acute Toxicity (Dermal) – Category 3, H311; Skin Corrosion - Category 1C, H314; Serious Eye Damage - Category 1, H318; Skin Sensitizer - Category 1, H317	0.1 – 1% w/w

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.

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Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 2)

- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Immediately call a 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.

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).

Dispose contaminated material as waste according to section 13.

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:

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: 80-62-6	CAS: 80-62-6 methyl methacrylate		
EL (Canada)	STEL: 100 ppm		
,	TWA: 50 ppm		
	S(D)		
EV (Canada)	STEL: 100 ppm		
,	TWA: 50 ppm		
PEL (USA)	TWA: 410 mg/m³, 100 ppm		

Printing date 01/29/2024 Reviewed on 01/29/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

	(Contd. of page 3)	
REL (USA)	TWA: 410 mg/m³, 100 ppm	
TLV (USA)	STEL: 100 ppm TWA: 50 ppm	
	DSEN, A4	
CAS: 79-41-4	Methacrylic acid	
EL (Canada)	TWA: 20 ppm	
EV (Canada)	TWA: 70 mg/m³, 20 ppm	
REL (USA)	TWA: 70 mg/m³, 20 ppm	
	Skin	
TLV (USA)	TWA: 20 ppm	
CAS: 99-97-8	N,N-dimethyl-p-toluidine	
EL (Canada)	IARC 2B	
WEEL (USA)	TWA: 0.5 ppm	
CAS: 8050-09	CAS: 8050-09-7 Rosin	
EL (Canada)	S(D), S(R)	
TLV (USA)	TWA: 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 che - General Information - Appearance:	mical properties	
- Form:	Viscous	
- Color:	Whitish	
- Odor:	Pungent	
- Odor threshold:	Not determined.	
- pH-value:	Not determined.	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. ≥ 101 °C	
- Flash point:	10 °C	
- Flammability (solid, gaseous):	Highly flammable.	
- Auto igniting:	430 °C	

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Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 4)

- 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:	≤ 47 hPa
- Density at 20 °C:	~ 0.96 g/cm³
- Relative density	Not determined.
- Vapor density	Not determined.
- Evaporation rate	Not determined.
- Solubility in / Miscibility with - Water:	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/wa	ater): Not determined.
- Viscosity:	
- Dynamic at 20 °C:	160,000 mPas
- Kinematic:	Not determined.
- Solvent content:	
Organic solvents:	0.1 %
- Water:	0.0 %
- VOC content:	0.12 %
	~ 1.2 g/l / ~ 0.01 lb/gal
- Solids content:	26.4 %
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:

ATE (Acut	e Toxicity	Estimate)
•	LD50	6,503 mg/kg
Dermal	LD50	7,317 mg/kg
Inhalative	LC50/4 h	124 mg/l
CAS: 80-6	2-6 methy	/I methacrylate
Oral	LD50	7,872 mg/kg (rat)
CAS: 79-4	1-4 Metha	crylic 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	7-8 N,N-d	imethyl-p-toluidine
Oral	LD50	100 mg/kg (ATE)
Dermal	LD50	300 mg/kg (ATE)
Inhalative	LC50/4 h	3 mg/l (ATE)

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Trade name: Vibra-TITE® Methacrylate Adhesives

Monofunctional acid ester

Dermal LD50 300 mg/kg (ATE)

(Contd. of page 5)

- 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:

Harmful 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	
- NTP	- NTP (National Toxicology Program)		
CAS: 130-15-4 1	4-naphthoquinone	R	

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.

UN1133

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

14 Transport information

•

- UN-Number - DOT/TDG, ADR, IMDG, IATA

- UN proper shipping name

- DOT/TDG Adhesives
- ADR UN1133 Adhesives
- IMDG, IATA ADHESIVES

- Transport hazard class(es)
 - DOT/TDG (Transport dangerous goods):



- Class 3 Flammable liquids

Printing date 01/29/2024 Reviewed on 01/29/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

	(Contd. of page 6
- Label	3
- ADR, IMDG, IATA	
- Class	3 Flammable liquids
- Label	3
- Packing group - DOT/TDG, ADR, IMDG, IATA	III
- Environmental hazards: - Marine pollutant:	No
- Special precautions for user	Warning: Flammable liquids
- Hazard identification number (Kemler code):	
- EMS Number:	F-E,S-D
- Segregation groups - Stowage Category	(SGG1) Acids A
- Transport in bulk according to Annex II of MARPOL73, and the IBC Code	/78 Not applicable.
- Transport/Additional information:	
- DOT/TDG	
- Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
- ADR	
 Excepted quantities (EQ) 	Code: E1
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- 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

15 Regulatory information

- UN "Model Regulation":

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

- Sara

- Se	- Section 355 (extremely hazardous substances):			
None of the inc	gredients is listed.			
- Se	ection 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.			
Cana	dian auhatanaa listinga.			

UN 1133 ADHESIVES, 3, III

- Canadian substance listings:	
- Canadian Domestic Substances List (DSL)	
All ingredients are listed.	
- Canadian Non-Domestic Substances List (NDSL)	
None of the ingredients is listed.	
- Canadian Ingredient Disclosure list (limit 0.1%)	
None of the ingredients is listed.	
- Canadian Ingredient Disclosure list (limit 1%)	
CAS: 80-62-6 methyl methacrylate	
CAS: 79-41-4 Methacrylic acid	
·	(Contd. on page 8)

Printing date 01/29/2024 Reviewed on 01/29/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

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

(Contd. of page 7)

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)



Fire = 3

- NFPA ratings (scale 0 - 4)



Health = 3 Fire = 3Reactivity = 0

- 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

- * Data compared to the previous version altered.

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Safety Data Sheet according to HPR, Schedule 1

Printing date 01/29/2024 Reviewed on 01/29/2024

1 Identification

- Product identifier
 - Trade name: Vibra-TITE® Methacrylate Adhesives
 - Synonyms: PB420 All Purpose Fast Set Time; High Strength Part B
 - Part number: VTPB420B
 - 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

Carcinogenicity – Category 2 H351 Suspected of causing cancer.

Specific Target Organ Toxicity - Repeated Exposure - Category 2 H373 May cause damage to organs through prolonged or repeated exposure.



Acute Toxicity (Inhalation) - Category 4

Skin Irritation - Category 2 Eye Irritation - Category 2A

Skin Sensitizer - Category 1

Flammable Liquids - Category 4

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H227 Combustible liquid.

- Label elements

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





GHS07 GHS08

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

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

- Hazard statements

H227 Combustible liquid.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

Printing date 01/29/2024 Reviewed on 01/29/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 1)

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

- Precautionary statements

Obtain special instructions before use. P201 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.

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. 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. If skin irritation occurs: Get medical advice/attention. P332+P313 P333+P313 If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). P321 P337+P313 If eye irritation persists: Get medical advice/attention.

In case of fire: Use CO2, powder or water spray to extinguish. P370+P378

P403 Store in a well-ventilated place.

P405 Store locked up.

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

3 Composition/Information on ingredients

- Chemical characterization: Mixtures

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

- Dangerous c	•	
CAS: 94-36-0	benzoyl peroxyde Organic Peroxides – Type B, H241; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317	10 – 30% w/w
CAS: 9003-63-8	Acrylic Polymer Combustible Dusts - Category 1	5 – 10% w/w
CAS: 131298-44-7	branched C10-alkyl benzoates Acute Toxicity (Inhalation) - Category 4, H332	5 – 10% w/w
CAS: 1317-65-3	Calcium Carbonate Skin Irritation - Category 2, H315	3 – 7% w/w
CAS: 80-15-9	dimethylbenzyl hydroperoxide Self-reactive Substances and Mixtures – Type F, H242; Organic Peroxides – Type E, H242; Acute Toxicity (Inhalation) - Category 3, H331; Specific Target Organ Toxicity - Repeated Exposure - Category 2, H373; Aspiration Hazard - Category 1, H304; Skin Corrosion - Category 1B, H314; Serious Eye Damage - Category 1, H318; Acute Toxicity (Oral) - Category 4, H302; Acute Toxicity (Dermal) – Category 4, H312; Specific Target Organ Toxicity - Single Exposure - Category 3, H335; Flammable Liquids - Category 4, H227	1 – 5% w/w
CAS: 557-05-1	zinc distearate Specific Target Organ Toxicity - Single Exposure - Category 3, H335	1 – 5% w/w
CAS: 69012-64-2	Silica-Amorphous Silica fume	1 – 5% w/w
CAS: 25068-38-6	Bisphenol-A epoxy resin Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	0.1 – 1% w/w
CAS: 98-82-8	Cumene Flammable Liquids - Category 3, H226; Carcinogenicity – Category 2, H351; Aspiration Hazard - Category 1, H304; Acute Toxicity (Oral) - Category 4, H302; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	0.1 – 1% w/w

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.

Printing date 01/29/2024 Reviewed on 01/29/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 2)

- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Immediately call a 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.

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:

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: 1317-65	5-3 Calcium Carbonate	
EL (Canada)	STEL: 20* mg/m³	
, ,	TWA: 10* 3** mg/m³	
	*total dust;**respirable fraction	
CAS: 80-15-9	dimethylbenzyl hydroperoxide	
WEEL (USA)	TWA: 6 mg/m³, 1 ppm	
, ,	Skin	
		(Contd. on none 1)

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	1 zinc distearate
EL (Canada)	STEL: 20* mg/m³ TWA: 10* 3** mg/m³ *total dust;**respirable dust
PEL (USA)	TWA: 15* 5** mg/m³ *total dust **respirable fraction
REL (USA)	TWA: 10* 5** mg/m³ *total dust **respirable fraction
TLV (USA)	TWA: 10* 3** mg/m³ *inhalable, **respirable particulate matter, *A4
CAS: 69012-6	64-2 Silica-Amorphous Silica fume
EL (Canada)	TWA: 4* 1.5** mg/m³ fume *total; **respirable
EV (Canada)	TWA: 2 mg/m³ respirable
TLV (USA)	TLV withdrawn
CAS: 98-82-8	Cumene
EL (Canada)	STEL: 75 ppm TWA: 25 ppm IARC 2B
EV (Canada)	TWA: 245 mg/m³, 50 ppm Skin
PEL (USA)	TWA: 245 mg/m³, 50 ppm Skin
REL (USA)	TWA: 245 mg/m³, 50 ppm Skin
TLV (USA)	TWA: 5 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.

- 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:

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

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- pH-value:	Not determined.
- Change in condition - Melting point/Melting range: - Boiling point/Boiling range:	Undetermined. ≥ 414 °C
- Flash point:	84 °C
- Flammability (solid, gaseous):	May cause fire.
- Auto igniting:	410 °C
- Decomposition temperature:	Not determined.
- Ignition temperature:	Product is not selfigniting.
- Danger of explosion:	Not determined.
- Explosion limits: - Lower: - Upper:	Not determined. Not determined.
- Vapor pressure at 20 °C:	< 1 hPa
- Density at 20°C: - Relative density - Vapor density - Evaporation rate	~ 0.96 g/cm³ Not determined. Not determined. Not determined.
- Solubility in / Miscibility with - Water:	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/wa	ater): Not determined.
- Viscosity: - Dynamic at 20°C: - Kinematic:	80,000 mPas Not determined.
- Solvent content: - Organic solvents: - VOC content:	0.3 % 0.30 % ~ 2.9 g/l / ~ 0.02 lb/gal
- Solids content:	56.6 %
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	te Toxicity	r Estimate)	
Oral	LD50	15,159 mg/kg (rat)	
Dermal	LD50	19,841 mg/kg (rat)	
Inhalative	LC50/4 h	18.7 mg/l	
CAS: 131298-44-7 branched C10-alkyl benzoates			
Inhalative	LC50/4 h	1.5 mg/l (ATE)	
CAS: 80-15-9 dimethylbenzyl hydroperoxide			
Oral	LD50	382 mg/kg (rat)	
Dermal	LD50	500 mg/kg (rat)	

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Inhalative	LC50/4 h	220 mg/l (rat)
CAS: 557-	-05-1 zinc	distearate
Oral	LD50	10,000 mg/kg (rat)
CAS: 98-8	2-8 Cume	ne
Oral	LD50	1,400 mg/kg (rat)
Dermal	LD50	12,300 mg/kg (rabbit)
Inhalative	LC50/4 h	24.7 mg/l (mouse)

- Primary irritant effect:
 - on the skin: Irritant to skin and mucous membranes.
 - on the eye: 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
CAS: 98-82-8	Cumene	2B
CAS: 112926-00-8	Precipitated silica (Silica-Amorphous)	3
CAS: 128-37-0	Butylated hydroxytoluene	3
- NTP (I	National Toxicology Program)	
CAS: 98-82-8 Cum	ene	R

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: Harmful to 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.

Harmful to 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/TDG, ADR, IMDG, IATA	not regulated	
- UN proper shipping name - DOT/TDG, ADR, IMDG, IATA	not regulated	

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		(Oorita: or page
- Transport hazard class(es)		
- DOT/TDG, ADR, ADN, IMDG, IATA		
- Class	not regulated	
- Packing group		
- DOT/TDG, ADR, IMDG, IATA	not regulated	
- Environmental hazards:		
- Marine pollutant:	Yes	
- Special precautions for user	Not applicable.	
- Transport in bulk according to Annex II of	MARPOL73/78	
and the IBC Code	Not applicable.	
- UN "Model Regulation":	not regulated	

*15 Regulatory information

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

- Sara		
- Se	ection 355 (extremely hazardous substances):	
None of the inc	predients is listed.	
- Se	ection 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):	
Trioctyl trimelli	ate	ACTIVE
benzoyl peroxy	de	ACTIVE
Acrylic Polyme	Г	ACTIVE
branched C10-	alkyl benzoates	ACTIVE
Calcium Carbo	nate	ACTIVE
	methyl methacrylate polymer	ACTIVE ACTIVE
	dimethylbenzyl hydroperoxide	
•	Amorphous Silica	
zinc distearate		ACTIVE
	ous Silica fume	ACTIVE
	Bisphenol-A epoxy resin AC	
	Cumene	
7 1 1		ACTIVE
	calcium carbonate ACT	
	Butylated hydroxytoluene ACT	
Polymerization	Polymerization inhibitor AC	

- Canadian substance listings:

- Canadian Domestic Substances List (DSL)	
CAS: 3319-31-1	Trioctyl trimellitate
CAS: 94-36-0	benzoyl peroxyde
CAS: 9003-63-8	Acrylic Polymer
CAS: 131298-44	7 branched C10-alkyl benzoates
CAS: 25852-37-	Butyl acrylate-methyl methacrylate polymer
CAS: 80-15-9	dimethylbenzyl hydroperoxide
CAS: 67762-90-	Amorphous Silica
CAS: 557-05-1	zinc distearate
CAS: 69012-64-	Silica-Amorphous Silica fume
CAS: 25068-38-	Bisphenol-A epoxy resin
CAS: 98-82-8	Cumene
CAS: 112926-00	8 Precipitated silica (Silica-Amorphous)

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CAS: 617-94-7	2-Phenyl-2-propanol		
CAS: 471-34-1	calcium carbonate		
CAS: 128-37-0	Butylated hydroxytoluene		
	Polymerization inhibitor		
- Cai	nadian Non-Domestic Substances List (NDSL)		
CAS: 1317-65-3	CAS: 1317-65-3 Calcium Carbonate		
- Cai	nadian Ingredient Disclosure list (limit 0.1%)		
None of the ing	redients is listed.		
- Cai	nadian Ingredient Disclosure list (limit 1%)		
CAS: 94-36-0	benzoyl peroxyde		
CAS: 80-15-9	dimethylbenzyl hydroperoxide		
CAS: 557-05-1	zinc distearate		

- 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
- 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

- * Data compared to the previous version altered.

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