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Safety Data Sheet according to HPR, Schedule 1

Printing date 01/29/2024 Reviewed on 01/26/2024

1 Identification

- Product identifier
 - Trade name: Vibra-TITE® Methacrylate Adhesives
 - Synonyms: PB320 All Purpose Medium Set Time; High Strength Part A
 - Part number: VTPB320A
 - 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.



GHS05 Corrosion

Serious Eye Damage - Category 1

H318 Causes serious eye damage.



GHS07

Skin Irritation - Category 2

H315 Causes skin irritation.

Skin Sensitizer - Category 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure - Category 3 H335 May cause respiratory irritation.

- 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 Rosin Monofunctional acid ester

- Hazard statements

H225 Highly flammable liquid and vapour.

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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, 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.
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.

Immediately call a poison center/doctor. P310

P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see on this label). P312 Call a poison center/doctor if you feel unwell.

Take off contaminated clothing and wash it before reuse. P362+P364 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	s 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: 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	0.1 – 1% w/w
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.
- 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.

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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).

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.

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	
REL (USA)	TWA: 410 mg/m³, 100 ppm	
TLV (USA)	STEL: 100 ppm TWA: 50 ppm DSEN, A4	

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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	1-7 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

ormation on basic physical and che 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: 	≥ 101 °C
Flash point:	10 °C
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	430 °C
- 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.

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- 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/w	rater): Not determined.
- Viscosity:	
- Dynamic at 20 °C:	160,000 mPas
- Kinematic:	Not determined.
- Solvent content:	
Organic solvents:	0.2 %
- Water:	0.2 %
- VOC content:	0.16 %
	~ 1.6 g/l / ~ 0.01 lb/gal
- Solids content:	26.2 %
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:

	D/LC50 v	alues that are relevant for classification:
ATE (Acut	te Toxicity	r Estimate)
Oral	LD50	9,088 mg/kg
Dermal	LD50	8,824 mg/kg
Inhalative	LC50/4 h	159 mg/l
CAS: 80-6	2-6 methy	/I methacrylate
Oral	LD50	7,872 mg/kg (rat)
CAS: 79-4	1-4 Metha	ncrylic 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)
Monofund	tional aci	d ester
Dermal	LD50	300 mg/kg (ATE)
- Pi	rimary irr	itant effect:

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

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- Additional toxicological information:

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

- Carcinogenic categories

3
1.
3
3
2B
3
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.
- Uncleaned packagings:
 - Recommendation: Disposal must be made according to official regulations.

14 Transport information

14 Transport information		
- UN-Number - DOT/TDG, ADR, IMDG, IATA	UN1133	
- UN proper shipping name - DOT/TDG - ADR - IMDG, IATA	Adhesives UN1133 Adhesives ADHESIVES	
- Transport hazard class(es) - DOT/TDG (Transport dangerous goods):		



- Class 3 Flammable liquids - Label

- ADR, IMDG, IATA



- Class 3 Flammable liquids - Label

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- Packing group - DOT/TDG, ADR, IMDG, IATA	III
- Environmental hazards: - Marine pollutant:	No
- Special precautions for user - Hazard identification number (Kemler code): - EMS Number: - Segregation groups - Stowage Category	Warning: Flammable liquids - F-E,S-D (SGG1) Acids A
 Transport in bulk according to Annex II of MARPOL73 and the IBC Code 	7/78 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) - 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 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

- Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
- Section 313 (Specific toxic chemical listings):	
CAS: 80-62-6 methyl methacrylate	
Monofunctional acid ester	
- TSCA (Toxic Substances Control Act):	
methyl methacrylate	ACTIV
Impact modifying resin	ACTIV
Neoprene rubber	ACTIV
Methacrylic acid	ACTIV
Styrene-Butadiene-Styrene Polymer	ACTIV
Styrene-Isoprene-Styrene Polymer	ACTIV
N,N-dimethyl-p-toluidine	ACTIVI
Wax	ACTIVI
Rosin	ACTIV
Monofunctional acid ester	ACTIV
Deionized water	ACTIV
propane-1,2-diol	ACTIV
Soapstone	ACTIV
N-isopropylhydroxylamine	ACTIV
Polymerization inhibitor	ACTIV
tetrasodium ethylenediaminetetraacetate	ACTIV
1,4-naphthoquinone	ACTIV
2-Propanone, oxime	ACTIV

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- Canadian substance listings:

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	oundain substance nsungs.	
- Canadian Domestic Substances List (DSL)		
CAS: 80-62-6	methyl methacrylate	
	Impact modifying resin	
CAS: 9010-98-4	Neoprene rubber	
CAS: 79-41-4	Methacrylic acid	
CAS: 9003-55-8	Styrene-Butadiene-Styrene Polymer	
CAS: 25038-32-8	Styrene-Isoprene-Styrene Polymer	
CAS: 26602-62-0	Styrene-Isoprene-Butadiene-Styrene Polymer	
CAS: 99-97-8	N,N-dimethyl-p-toluidine	
	Wax	
CAS: 8050-09-7	Rosin	
	Monofunctional acid ester	
CAS: 7732-18-5	Deionized water	
CAS: 57-55-6	propane-1,2-diol	
CAS: 14807-96-6	Soapstone	
CAS: 5080-22-8	N-isopropylhydroxylamine	
	Polymerization inhibitor	
CAS: 64-02-8	tetrasodium ethylenediaminetetraacetate	
CAS: 130-15-4	1,4-naphthoquinone	
- Cana	dian Non-Domestic Substances List (NDSL)	
CAS: 127-06-0 2-Propanone, oxime		
- Canadian Ingredient Disclosure list (limit 0.1%)		
None of the ingredients is listed.		
- Cana	dian Ingredient Disclosure list (limit 1%)	
CAS: 80-62-6 methyl methacrylate		
CAS: 79-41-4 Methacrylic acid		
	- Chemical safety assessment: A Chemical Safety Assessment has not been carried out	

- 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.

- Disclaimer

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