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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® Metharcylate Adhesives - Synonyms: PB560 All Purpose - Long Set Time; High Flex - Part A - Part number: VTPB560A - 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 GHS02 Flame Flammable Liquids - Category 2 H225 Highly flammable liquid and vapour. GHS08 Health hazard Respiratory Sensitizer - Category 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. Carcinogenicity – Category 2 H351 Suspected of causing cancer. GHS07 Skin Irritation - Category 2 H315 Causes skin irritation. Eve Irritation - Category 2A H319 Causes serious eve 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 GHS07 GHS08 - Signal word Danger - Hazard-determining components of labeling: methyl methacrylate Cumene 2-ethylhexyl methacrylate 2-hydroxyethyl methacrylate

maleic anhydride - *Hazard statements* H225 Highly flammable liquid and vapour. H315 Causes skin irritation.

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ous eye irritation.
allergy or asthma symptoms or breathing difficulties if inhaled.
an allergic skin reaction.
of causing cancer.
espiratory irritation.
statements
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion-proof [electrical/ventilating/lighting] equipment.
Use non-sparking tools.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
Wear protective gloves.
[In case of inadequate ventilation] wear respiratory protection.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to
do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Call a poison center/doctor if you feel unwell.
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
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	15 – 40% w/w
	Flammable Liquids - Category 2, H225; Skin Irritation - Category 2, H315; Skin Sensitizer - Category 1, H317; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	
CAS: 688-84-6	2-ethylhexyl methacrylate	10 – 30% w/w
	Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317; Specific Target Organ Toxicity - Single Exposure - Category 3, H335; Flammable Liquids - Category 4, H227	
CAS: 868-77-9	2-hydroxyethyl methacrylate Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317	1 – 5% w/w
CAS: 80-15-9	dimethylbenzyl hydroperoxide	0.1 – 1% w/w
	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	
CAS: 108-31-6	maleic anhydride	0.1 – 1% w/w
	Respiratory Sensitizer - Category 1, H334; Specific Target Organ Toxicity - Repeated Exposure - Category 1, H372; Skin Corrosion - Category 1B, H314; Serious Eye Damage - Category 1, H318; Acute Toxicity (Oral) - Category 4, H302; Skin Sensitizer - Category 1, H317	
CAS: 98-82-8	Cumene	≤ 0.1% w/w
	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	

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.

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- Information for doctor:
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- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

Extinguishing media

- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents: Water
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
 - Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
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:
- 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 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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dimethylbenzyl hydroperoxide TWA: 6 mg/m³, 1 ppm Skin i maleic anhydride TWA: 0.1 ppm
Skin maleic anhydride
maleic anhydride
TWA: 0.1 ppm
S(D), S(R)
TWA: 0.1 ppm
TWA: 1 mg/m³, 0.25 ppm
TWA: 1 mg/m³, 0.25 ppm
TWA: 0.01* mg/m³
DSEN, RSEN;*inh. fraction + vapor, A4
Cumene
STEL: 75 ppm TWA: 25 ppm IARC 2B
TWA: 245 mg/m³, 50 ppm Skin
TWA: 245 mg/m³, 50 ppm Skin
TWA: 245 mg/m³, 50 ppm Skin
TWA: 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

 Information on basic physical and cher 	nical 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:	101 °C	

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- 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.
- Explosion limits:	
- Lower:	2.1 Vol %
- Upper:	12.5 Vol %
- Vapor pressure at 20 °C:	47 hPa
- Density at 20 °C:	0.96 g/cm ³
- 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	vater): Not determined.
- Viscosity:	
- Dynamic at 20 °C:	60,000 mPas
- Kinematic:	Not determined.
- Solvent content:	
 Organic solvents: 	0.3 %
- Water:	0.2 %
- VOC content:	0.26 %
	2.5 g/l / 0.02 lb/gal
- Solids content:	27.9 %
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

- / /	e toxicity	alues that are relevant for classification:
		Estimate)
Inhalative	LC50/4 h	26,190 mg/l (rat)
CAS: 80-6	2-6 methy	I methacrylate
Oral	LD50	7,872 mg/kg (rat)
CAS: 868-	-77-9 2-hy	droxyethyl methacrylate
Oral	LD50	5,050 mg/kg (rat)
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)

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CAS: 108-	31-6 male	eic anhydride	
Oral	LD50	400 mg/kg (rat)	
Dermal	LD50	2,620 mg/kg (rabbit)	
CAS: 98-8	2-8 Cume	ene	
Oral	LD50	1,400 mg/kg (rat)	
Dermal	LD50	12,300 mg/kg (rabbit)	
Inhalative	LC50/4 h	24.7 mg/l (mouse)	
- Pr	imary in	ritant effect:	
	- on the	skin: Irritant to skin and mucous membranes.	
		eye: Irritating effect.	
		ion: Sensitization possible through skin contact.	
- Addit	ional to	xicological information:	
- Addit	ional to	xicological information:	IS:
- Addit	ional tox oduct sho		ns:
- Addit The pr Irritant	ional tox oduct sho	xicological information: ows the following dangers according to internally approved calculation methods for preparation	าร:
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- Addit The pr Irritant - Ca	ional tox oduct sho arcinoge - IARC (I	xicological information: ows the following dangers according to internally approved calculation methods for preparation enic categories	3
- Addit The pr Irritant - Ca	ional tox oduct sho arcinoge - IARC (I 2-6 m	xicological information: ows the following dangers according to internally approved calculation methods for preparation enic categories International Agency for Research on Cancer)	3
- Addit The pr Irritant - Ca CAS: 80-6	ional tox oduct sho arcinoge - IARC (I 2-6 m 37-0 B	xicological information: ows the following dangers according to internally approved calculation methods for preparation enic categories International Agency for Research on Cancer) methyl methacrylate	3
- Addit The pr Irritant - Ca CAS: 80-6 CAS: 128- CAS: 98-8	ional tox oduct sho arcinoge - IARC (1 2-6 m 37-0 B 2-8 C	xicological information: we the following dangers according to internally approved calculation methods for preparation enic categories International Agency for Research on Cancer) methyl methacrylate Butylated hydroxytoluene	
- Addit The pr Irritant - Ca CAS: 80-6 CAS: 128- CAS: 98-8 CAS: 1346	ional to) oduct sho arcinoge - IARC (1 2-6 m 37-0 B 2-8 C 33-67-7 tii	xicological information: we the following dangers according to internally approved calculation methods for preparation enic categories International Agency for Research on Cancer) methyl methacrylate Butylated hydroxytoluene Cumene	3
- Addit The pr Irritant - Ca CAS: 80-6 CAS: 128- CAS: 98-8 CAS: 1346	ional to: oduct sho - IARC (1 2-6 m 37-0 B 2-8 C 33-67-7 ti - NTP (N	xicological information: we the following dangers according to internally approved calculation methods for preparation enic categories International Agency for Research on Cancer) methyl methacrylate Butylated hydroxytoluene Cumene tanium dioxide	3
- Addit The pr Irritant - Ca CAS: 80-6 CAS: 128- CAS: 98-8 CAS: 1346 CAS: 98-8	ional to: oduct sho - IARC (1 2-6 m 37-0 B 2-8 C 3-67-7 ti - NTP (N 2-8 Cun	xicological information: boost the following dangers according to internally approved calculation methods for preparation anic categories International Agency for Research on Cancer) bethyl methacrylate Butylated hydroxytoluene Cumene tanium dioxide Internal Toxicology Program)	2 2 2
- Addit The pr Irritant - Ca CAS: 80-6 CAS: 128- CAS: 98-8 CAS: 1346 CAS: 98-8 CAS: 98-8 CAS: 130-	ional to: oduct sho arcinoge - IARC (1 2-6 m 37-0 B 2-8 C 33-67-7 tir - NTP (N 2-8 Cun 15-4 1,4-	xicological information: bows the following dangers according to internally approved calculation methods for preparation anic categories International Agency for Research on Cancer) bethyl methacrylate Butylated hydroxytoluene Cumene tanium dioxide Internal Toxicology Program) nene	

- 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

•		
- UN-Number - DOT/TDG, ADR, IMDG, IATA	UN1133	
- UN proper shipping name - DOT/TDG - ADR - IMDG, IATA	Adhesives UN1133 Adhesives ADHESIVES	

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Transport hazard class(es)	
- DOT/TDG (Transport dangerous goods):	
- Class	3 Flammable liquids
- 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
- Stowage Category	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
MDC	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
UN "Model Regulation":	UN 1133 ADHESIVES, 3, III
Regulatory information	
	an anapitio for the substance or winteres
Safety, health and environmental regulations/legislations	on specific for the substance or mixture
- Section 355 (extremely hazardous substanc	es):
None of the ingredients is listed.	

 None of the ingredients is listed.

 - Section 313 (Specific toxic chemical listings):

 CAS: 80-62-6
 methyl methacrylate

 CAS: 80-15-9
 dimethylbenzyl hydroperoxide

 CAS: 108-31-6
 maleic anhydride

 CAS: 98-82-8
 Cumene

 Rheology Additive

 - TSCA (Toxic Substances Control Act):

 All components have the value ACTIVE.

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- Canadia	n substance listings:
	dian Domestic Substances List (DSL)
CAS: 80-62-6	methyl methacrylate
CAS: 688-84-6	2-ethylhexyl methacrylate
	Impact modifying resin
	Chlorosulfanated polyethylene
CAS: 868-77-9	2-hydroxyethyl methacrylate
CAS: 80-15-9	dimethylbenzyl hydroperoxide
CAS: 108-31-6	maleic anhydride
CAS: 128-37-0	Butylated hydroxytoluene
	Wax
CAS: 7732-18-5	Deionized water
CAS: 57-55-6	propane-1,2-diol
CAS: 98-82-8	Cumene
CAS: 18268-70-7	Tetraethylene glycol hexoate
CAS: 13463-67-7	titanium dioxide
	Polymerization inhibitor
CAS: 617-94-7	2-Phenyl-2-propanol
CAS: 64-02-8	tetrasodium ethylenediaminetetraacetate
CAS: 130-15-4	1,4-naphthoquinone
CAS: 112945-52-5	Silicon dioxide, amorphous
CAS: 21645-51-2	Alumina Trihydrate
	Rheology Additive
	dian Non-Domestic Substances List (NDSL)
None of the ingred	ients is listed.
- Cana	dian Ingredient Disclosure list (limit 0.1%)
CAS: 108-31-6 m	aleic anhydride
- Cana	dian Ingredient Disclosure list (limit 1%)
CAS: 80-62-6 m	ethyl methacrylate
	ethylhexyl methacrylate
	hydroxyethyl methacrylate
- Chemical safet	y 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
 IEINECS: 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)
 LCS0: Lethal concentration, 50 percent
 LDS0: Lethal dose, 50 percent
 DBT: Bersiteant Bioacoumulative and Toxic

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

- * Data compared to the previous version altered.

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- Disclaimer

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