01/26/2024	Kit Components
Product code	Description
VTPB560	Vibra-TITE® Methacrylate Adhesives PB560 All Purpose - Long Set Time; High Flex
Components:	
VTPB560A	Vibra-TITE® Metharcylate Adhesives
VTPB560B	Vibra-TITE® Methacrylate Adhesives





Safety Data Sheet

acc. to OSHA HCS

Printing date 01/26/2024

Reviewed on 01/26/2024

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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:

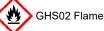
ND Industries, Inc 1000 North Crooks Road Clawson, MI 48017 USA Telephone: +1-248-288-0000 Email: info@ndindustries.com Website: www.ndindustries.com

- Information department: Product Safety Department

- *Emergency telephone number:* United States: 1-800-424-9300 International: +1-703-527-3887

2 Hazard(s) identification

- Classification of the substance or mixture



Flammable Liquids 2

H225 Highly flammable liquid and vapor.

H351 Suspected of causing cancer.

GHS08 Health hazard

Carcinogenicity 2

GHS07

Skin Irritation 2H315 Causes skin irritation.Eye Irritation 2AH319 Causes serious eye irritation.Sensitization - Skin 1H317 May cause an allergic skin reaction.Specific Target Organ Toxicity - Single Exposure 3H335 May cause respiratory irritation.

- Label elements

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

- Hazard pictograms



- 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 vapor.

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

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Trade name: Vibra-TITE® Metharcylate Adhesives

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			ntd. of page 1)
	H351 Suspected o		
		espiratory irritation.	
	Precautionary s		
	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 ea Continue rinsing.	isy to do.
	P308+P313	IF exposed or concerned: Get medical advice/attention.	
	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.	
	P321	Specific treatment (see on this label).	
	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.	
- 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: 80-62-6	methyl methacrylate	30 - 39%	
	Flammable Liquids 2, H225; Skin Irritation 2, H315; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	-	
CAS: 688-84-6	2-ethylhexyl methacrylate	20 – 29%	
	Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335; Flammable Liquids 4, H227		
CAS: 868-77-9	2-hydroxyethyl methacrylate	1 – 4%	
	Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317		
CAS: 80-15-9	dimethylbenzyl hydroperoxide		
	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: 108-31-6	maleic anhydride	≤ 1%	
	Sensitization - Respiratory 1, H334; Specific Target Organ Toxicity - Repeated Exposure 1, H372; Skin Corrosion 1B, H314; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Sensitization - Skin 1, H317	_	
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

- 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.

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

⁻ Information for doctor:

Trade name: Vibra-TITE® Metharcylate Adhesives

(Contd. of page 2)

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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). 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 other constituents have no known exposure limits.

CAS: 8	0-62-6 methyl methacrylate					
PEL	Long-term value: 410 mg/m³, 100 ppm					
REL	Long-term value: 410 mg/m³, 100 ppm					
TLV	Short-term value: 100 ppm Long-term value: 50 ppm DSEN, A4					
CAS: 8	0-15-9 dimethylbenzyl hydroperoxide					
WEEL	Long-term value: 6 mg/m³, 1 ppm Skin					
CAS: 1	CAS: 108-31-6 maleic anhydride					
PEL	Long-term value: 1 mg/m ³ , 0.25 ppm					
REL	Long-term value: 1 mg/m³, 0.25 ppm					

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Trade name: Vibra-TITE® Metharcylate Adhesives

	(Contd. of page 3)
TLV	Long-term value: 0.01* mg/m³ DSEN, RSEN;*inh. fraction + vapor, A4
CAS: 9	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

formation 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 (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 %

Trade name: Vibra-TITE® Metharcylate Adhesives

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		(Contd. of pa
- Density at 20 °C (68 °F):	0.96 g/cm³ (8.0112 lbs/gal)	
- 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 (68 °F):	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

- Information on toxicological effects

- Acute toxicity:

- LI	D/LC50 v	alues that are relevant for classification:	
ATE (Acut	te Toxicity	r 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-hyd	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)	
CAS: 108-	31-6 male	ic anhydride	
Oral	LD50	400 mg/kg (rat)	
Dermal	LD50	2,620 mg/kg (rabbit)	
CAS: 98-82-8 Cumene			
Oral	LD50	1,400 mg/kg (rat)	
Dermal	LD50	12,300 mg/kg (rabbit)	
Inhalative	LC50/4 h	24.7 mg/l (mouse)	

- Primary irritant effect:

- 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

- Packing group - DOT, IMDG, IATA

Trade name: Vibra-TITE® Metharcylate Adhesives

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- Carcin	ogenic categories		
- IAF	RC (International Agency for Res	earch on Cancer)	
CAS: 80-62-6	methyl methacrylate		3
CAS: 128-37-0	Butylated hydroxytoluene		3
CAS: 98-82-8	Cumene		21
CAS: 13463-67	-7 titanium dioxide		21
- NT	P (National Toxicology Program)	 	
CAS: 98-82-8			
CAS: 130-15-4	1,4-naphthoquinone		1
- OS	HA-Ca (Occupational Safety & H	ealth Administration)	
None of the ing	redients is listed.		
2 Ecological i	nformation		
- Additional ed - General n Water haza Do not allow - Results of Pl	rd class 1 (Self-assessment): slightly ha		
- vPvB: Not - Other advers 3 Disposal co - Waste treatm - Recomme	e effects No further relevant informations insiderations ent methods endation: Must not be disposed of tog	ion available. gether with household garbage. Do not allow product to reach sewa	ge system.
- vPvB: Not - Other advers 3 Disposal co - Waste treatm - Recomme - Uncleaned po - Recomme	applicable. e effects No further relevant informations insiderations ent methods endation: Must not be disposed of tog ackagings: endation: Disposal must be made acc	ether with household garbage. Do not allow product to reach sewa	ge system.
- vPvB: Not - Other advers 3 Disposal co - Waste treatm - Recomme - Uncleaned po - Recomme 4 Transport in	applicable. e effects No further relevant informations insiderations ent methods endation: Must not be disposed of tog ackagings: endation: Disposal must be made acc	ether with household garbage. Do not allow product to reach sewa	ge system.
- vPvB: Not - Other advers 3 Disposal co - Waste treatm - Recomme - Recomme 1 Transport in - UN-Number	applicable. The effects No further relevant information Sector States Sector States	ether with household garbage. Do not allow product to reach sewa	ge system.
- vPvB: Not - Other advers 3 Disposal co - Waste treatm - Recomme - Uncleaned po - Recomme 1 Transport in - UN-Number - DOT, IMD	applicable. The effects No further relevant informations the insiderations the endation: Must not be disposed of toget ackagings: andation: Disposal must be made acconformation G, IATA	jether with household garbage. Do not allow product to reach seway cording to official regulations.	ge system.
- vPvB: Not - Other advers 3 Disposal co - Waste treatm - Recomme - Uncleaned pa - Recomme 4 Transport in - UN-Number - DOT, IMD - UN proper sh	applicable. The effects No further relevant informations the insiderations the endation: Must not be disposed of toget ackagings: andation: Disposal must be made acconformation G, IATA	pether with household garbage. Do not allow product to reach seway cording to official regulations. UN1133	ge system.
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- vPvB: Not Other advers Disposal co Waste treatm - Recomme Uncleaned po - Recomme Transport in UN-Number - DOT, IMD UN proper sh - DOT - IMDG, IAT - Transport ha - DOT	applicable. The effects No further relevant informations tensiderations tent methods endation: Must not be disposed of tog ackagings: endation: Disposal must be made acconformation G, IATA hipping name TA	pether with household garbage. Do not allow product to reach seway cording to official regulations. UN1133 Adhesives	ge system.
- vPvB: Not - Other advers 3 Disposal co - Waste treatm - Recomme - Uncleaned po - Recomme 1 Transport in - UN-Number - DOT, IMD - UN proper sh - DOT - IMDG, IAT - Transport ha - DOT - Class - Label	applicable. e effects No further relevant informations insiderations inent methods endation: Must not be disposed of tog ackagings: endation: Disposal must be made acconformation G , IATA hipping name TA zard class(es)	gether with household garbage. Do not allow product to reach seway cording to official regulations. UN1133 Adhesives ADHESIVES 3 Flammable liquids	ge system.
- vPvB: Not - Other advers 3 Disposal co - Waste treatm - Recomme - Uncleaned po - Recomme 1 Transport in - UN-Number - DOT, IMD - UN proper sh - DOT - IMDG, IAT - Transport ha - DOT - Class	applicable. e effects No further relevant informations insiderations inent methods endation: Must not be disposed of tog ackagings: endation: Disposal must be made acconformation G , IATA hipping name TA zard class(es)	gether with household garbage. Do not allow product to reach seway cording to official regulations. UN1133 Adhesives ADHESIVES 3 Flammable liquids	ge system.
- vPvB: Not - Other advers 3 Disposal co - Waste treatm - Recomme - Uncleaned po - Recomme 1 Transport in - UN-Number - DOT, IMD - UN proper sh - DOT - IMDG, IAT - Transport ha - DOT - Class - Label	applicable. e effects No further relevant informations insiderations inent methods endation: Must not be disposed of tog ackagings: endation: Disposal must be made acconformation G , IATA hipping name TA zard class(es)	gether with household garbage. Do not allow product to reach seway cording to official regulations. UN1133 Adhesives ADHESIVES 3 Flammable liquids	ge system.

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Trade name: Vibra-TITE® Metharcylate Adhesives

	(Contd. of page 6
- 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	Α
- 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 (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
- UN "Model Regulation":	UN 1133 ADHESIVES, 3, III

*15 Regulatory information

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

- Sara				
	ction 355 (extremely haza	rdous substances	s):	
None of the ing	redients is listed.			
- Se	ction 313 (Specific toxic c	hemical listings):		
CAS: 80-62-6	·····			
	dimethylbenzyl hydroperoxide			
CAS: 108-31-6	maleic anhydride			
CAS: 98-82-8	Cumene			
	Rheology Additive			
- TSCA	(Toxic Substances Contro	ol Act):		
All components	have the value ACTIVE.			
- Ha	zardous Air Pollutants			
	methyl methacrylate			
CAS: 108-31-6	maleic anhydride			
CAS: 98-82-8				
CAS: 130-15-4	1,4-naphthoquinone			
- Propo	sition 65			
	emicals known to cause o	cancer:		
	mpact modifying resin			
	Chlorosulfanated polyethylene			
CAS: 98-82-8	Cumene			
- Ch	emicals known to cause r	reproductive toxic	ity for females:	
Impact modifyi	ng resin			
- Ch	emicals known to cause r	reproductive toxic	ity for males:	
Impact modifyi	ng resin			
- Ch	emicals known to cause o	developmental to	cicity:	
Rheology Addit	ive			
- Carcii	ogenic categories			
	A (Environmental Protect	ion Agency)		
	nethyl methacrylate			E, NI
	-			

CAS: 80-62-6 methyl methacrylate CAS: 98-82-8 Cumene

D, CBD

(Contd. on page 8)

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Trade name: Vibra-TITE® Metharcylate Adhesives

		(Contd. of page 7)		
- TLV	(Threshold Limit Value)			
CAS: 80-62-6	methyl methacrylate	A4		
CAS: 108-31-6	maleic anhydride	A4		
CAS: 128-37-0	Butylated hydroxytoluene	A4		
CAS: 13463-67-7	titanium dioxide	A4		
- NIOS	- NIOSH-Ca (National Institute for Occupational Safety and Health)			

CAS: 13463-67-7 titanium dioxide

- 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)



Health = 2 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 3: Flammable liquids – Category 3 Flammable Liquids 4: Flammable liquids – Category 4 Self-reactive substances and mixtures - Type F: Self-reactive substances and mixtures – Type E/F Organic Peroxides - Type E: Organic peroxides - Type E/F Acute Toxicity - Oral 4: Acute toxicity - Category 4 Acute Toxicity - Inhalation 3: Acute toxicity - Category 3 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 - Respiratory 1: Respiratory sensitisation - 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 1: Specific target organ toxicity (repeated exposure) – Category 1 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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Safety Data Sheet

acc. to OSHA HCS

Printing date 01/26/2024

Reviewed on 01/26/2024

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1 Identification

- Product identifier

- Trade name: Vibra-TITE® Methacrylate Adhesives
 - Synonyms: PB560 All Purpose Long Set Time; High Flex Part B
 - Part number: VTPB560B. VTPB5XXB
 - 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

H225 Highly flammable liquid and vapor.



Skin Irritation 2H315 Causes skin irritation.Sensitization - Skin 1H317 May cause an allergic skin reaction.Specific Target Organ Toxicity - Single Exposure 3H335 May cause respiratory irritation.

- Label elements

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



- Signal word Danger

- Hazard-determining components of labeling: methyl methacrylate
- Rosin

- Hazard statements

- H225 Highly flammable liquid and vapor.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- 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.
- P243 Take precautionary measures against static discharge.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.

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- Other

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			(Contd. of page 1)
	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.	
	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.	
	P312	Call a poison center/doctor if you feel unwell.	
	P362+P364	Take off contaminated clothing and wash it before reuse.	
	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).	
	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.	
r	hazards		
~	oulto of DPT on	d v Dv D accomment	

- 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 components:

CAS: 80-62-6	methyl methacrylate	69.10%
	Flammable Liquids 2, H225; Skin Irritation 2, H315; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	
CAS: 34562-31-7	3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Skin Irritation 2, H315; Eye Irritation 2B, H320	1 – 4%
CAS: 8050-09-7	Rosin 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.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
 - Most important symptoms and effects, both acute and delayed No further relevant information available.
 - Indication of any immediate medical attention and special treatment needed
 - No further relevant information available.

5 Fire-fighting measures

- Extinguishing media

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

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.

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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: 410 mg/m³, 100 ppm TLV Short-term value: 100 ppm Long-term value: 50 ppm DSEN, A4 CAS: 8050-09-7 Rosin TLV 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 skin.

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.

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- Eye protection:

Tightly sealed goggles

- Body protection: Protective work clothing

nformation on basic physical and cl	nemical properties
- General Information	
 Appearance: 	
- Form:	Viscous
- Color:	Black
- Odor:	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 at 20 °C (68 °F):	0.96 g/cm³ (8.0112 lbs/gal)
- 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 (68 °F):	100,000 mPas
- Kinematic:	Not determined.
 Solvent content: 	
 Organic solvents: 	0.2 %
- Water:	0.2 %
 VOC content: 	0.22 %
	2.2 g/l / 0.02 lb/gal
- Solids content:	25.5 %
Other information	No further relevant information available.

- Reactivity No further relevant information available.

- Chemical stability

- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.

- Incompatible materials: No further relevant information available.

⁻ Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

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- Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicological information - Information on toxicological effects - Acute toxicity:

- LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 33,333 mg/kg

Dermal LD50 73,333 mg/kg

CAS: 80-62-6 methyl methacrylate

Oral LD50 7,872 mg/kg (rat)

CAS: 34562-31-7 3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine

- Oral LD50 500 mg/kg (ATE)
- Dermal LD50 1,100 mg/kg (ATE)

- Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.

- on the eye: No 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	C (International Agency for Research on Cancer)			
CAS: 80-62-6	methyl methacrylate	3		
CAS: 9010-98-4	Neoprene rubber	3		
CAS: 14807-96-6	Soapstone	3		
- NTP (National Toxicology Program)				
None of the ingredients is listed.				
- OSHA-Ca (Occupational Safety & Health Administration)				
None of the ingredients is listed.				

- 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

- UN-Number

- DOT, IMDG, IATA

UN1133

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Trade name: Vibra-TITE® Methacrylate Adhesives

	(Contd. of pa
- UN proper shipping name	A 11
- DOT - IMDG, IATA	Adhesives ADHESIVES
	ADRESIVES
- Transport hazard class(es)	
- DOT	

- Class - Label	3 Flammable liquids 3
	3
- IMDG, IATA	
- Class	3 Flammable liquids
- Label	3
- Packing group	
- DOT, ÎMDĜ, 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 MARPOL73/7 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 (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 00 ml
- UN "Model Regulation":	UN 1133 ADHESIVES, 3, III
Regulatory information	
- Safety, health and environmental regulations/legislation No further relevant information available. - Sara	n specific for the substance or mixture
- Section 355 (extremely hazardous substance	s):
None of the ingredients is listed.	·
- Section 313 (Specific toxic chemical listings).	1
CAS: 80-62-6 methyl methacrylate	
CAS: 13395-16-9 copper(II) 4-oxopent-2-en-2-olate	
- TSCA (Toxic Substances Control Act):	
All components have the value ACTIVE.	
- Hazardous Air Pollutants	
CAS: 80-62-6 methyl methacrylate	
- Proposition 65	
FIUDUSILIUII US	
- Chemicals known to cause cancer:	

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		(Contd. of page 6)
- Che	micals known to cause reproductive toxicity for females:	
Impact modifying	resin	
- Che	micals known to cause reproductive toxicity for males:	
Impact modifying	resin	
- Che	micals known to cause developmental toxicity:	
None of the ingre	dients is listed.	
- Carcino	genic categories	
- EPA	(Environmental Protection Agency)	
CAS: 80-62-6 m	ethyl methacrylate	E, NL
- TLV	(Threshold Limit Value)	
CAS: 80-62-6	methyl methacrylate	A4
CAS: 14807-96-6	Soapstone	A4
- NIO	SH-Ca (National Institute for Occupational Safety and Health)	
None of the ingre	dients is listed	

None of the ingredients is listed.

- 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 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 List of Notified 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 D50: 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 REL: Recommended Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Acute Toxicity - Oral 4: Acute toxicity – Category 4 Skin Initiation 2: Skin corrosion/Iritation – Category 2 Eye Irritation 2B: Serious eye damage/eye irritation – Category 2B Sensitization - Skin 1: Skin sensitisation – Category 1 Specific Target Organ Toxicity - Single Exposure 3: *** Data compared to the previous version altered.**

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