



Safety Data Sheet

according to HPR, Schedule 1

Printing date 01/29/2024

Reviewed on 01/26/2024

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1 Identification - Product identifier

- Trade name: Vibra-TITE® Methacrylate Adhesives
 - Synonyms: PB530 All Purpose Moderate Set Time; High Strength Part A
 - **Part number:** VTPB530A
 - Application of the substance / the mixture Adhesives

- Details of the supplier of the safety data sheet

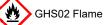
- *Manufacturer*/*Supplier:* ND Industries, Inc 1000 North Crooks Road Clawson, MI 48017 USA Telephone: +1-248-288-0000 Email: info@ndindustries.com Website: www.ndindustries.com

- 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

Respiratory Sensitizer - Category 1

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



Skin Irritation - Category 2H315 Causes skin irritation.Eye Irritation - Category 2AH319 Causes serious eye irritation.Skin Sensitizer - Category 1H317 May cause an allergic skin reaction.Specific Target Organ Toxicity - Single Exposure - Category 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 2-ethylhexyl methacrylate 2-hydroxyethyl methacrylate maleic anhydride Monofunctional acid ester mequinol

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

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		(Contd. of page 1
	319 Causes serio	
		llergy or asthma symptoms or breathing difficulties if inhaled.
		n allergic skin reaction.
		espiratory irritation.
	recautionary s	
		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.
P3		IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to
		do. Continue rinsing.
		Call a poison center/doctor if you feel unwell.
		Take off contaminated clothing and wash it before reuse.
		If skin irritation occurs: Get medical advice/attention.
		If skin irritation or rash occurs: Get medical advice/attention.
P3		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.
P5	501	Dispose of contents/container in accordance with local/regional/national/international regulations.
3 Compos	sition/Inform	ation 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 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	10 – 30% w/v
CAS: 868-77-9	2-hydroxyethyl methacrylate Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317	5 – 10% w/w
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: 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	
	Monofunctional acid ester	0.1 – 1% w/w
	Acute Toxicity (Dermal) – Category 3, H311; Skin Corrosion - Category 1C, H314; Serious Eye Damage - Category 1, H318; Skin Sensitizer - Category 1, H317	
CAS: 150-76-5	mequinol Acute Toxicity (Oral) - Category 4, H302; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317	≤ 0.1% w/w

- 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.

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- 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. - 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/m ³ , 100 ppm

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REL (USA)	TWA: 410 mg/m³, 100 ppm		
TLV (USA)	STEL: 100 ppm TWA: 50 ppm		
	DSEN, A4		
CAS: 108-31-	6 maleic anhydride		
EL (Canada)	TWA: 0.1 ppm		
	S(D), S(R)		
EV (Canada)	TWA: 0.1 ppm		
PEL (USA)	TWA: 1 mg/m³, 0.25 ppm		
REL (USA)	TWA: 1 mg/m³, 0.25 ppm		
TLV (USA)	TWA: 0.01* mg/m ³		
	DSEN, RSEN, [*] inh. fraction + vapor, A4		
CAS: 80-15-9	dimethylbenzyl hydroperoxide		
WEEL (USA)	TWA: 6 mg/m³, 1 ppm		
	Skin		
CAS: 150-76-	CAS: 150-76-5 mequinol		
EL (Canada)	TWA: 5 mg/m³		
EV (Canada)	TWA: 5 mg/m³		
REL (USA)	TWA: 5 mg/m³		
TLV (USA)	TWA: 5 mg/m ³		

- 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:



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	mical properties	
- Appearance:	<i>\t</i>	
- 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	
Bonnig point Bonnig range.	2101 0	
- Flash point:	10 °C	

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Other information	No further relevant information available.
- Solids content:	33.8 %
- voc coment.	0.05 % ∼ 0.5 g/l / ∼ 0.00 lb/gal
- Organic solvents: - VOC content:	0.1 % 0.05 %
- Solvent content:	
- Kinematic:	Not determined.
- Viscosity: - Dynamic at 20 °C:	325,000 mPas
- Partition coefficient (n-octanol/wat	ter): Not determined.
- Water:	Not miscible or difficult to mix.
- Solubility in / Miscibility with	
- Evaporation rate	Not determined.
- Vapor density	Not determined.
- Density at 20 °C: - Relative density	~ 0.96 g/cm ³ Not determined.
- Vapor pressure at 20 °C:	≤ 47 hPa
- Upper:	12.5 Vol %
- Lower:	2.1 Vol %
- Explosion limits:	
- Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
- Ignition temperature:	Product is not selfigniting.
- Decomposition temperature:	Not determined.
- Auto igniting:	430 °C
- Flammability (solid, gaseous):	Highly flammable.

- 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 (Acut	ATE (Acute Toxicity Estimate)		
Dermal	LD50	75,000 mg/kg	
Inhalative	LC50/4 h	52,381 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: 108-	31-6 male	ic anhydride	
Oral	LD50	400 mg/kg (rat)	
Dermal	LD50	2,620 mg/kg (rabbit)	
CAS: 80-1	CAS: 80-15-9 dimethylbenzyl 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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Monofunction Dermal LD5 CAS: 150-76-5		(Contd. of page 5
	·	
Oral LD5	•	
- Prima	ary irritant effect:	
	n the skin: Irritant to skin and mucous membranes.	
	n the eye: Irritating effect.	
- Sensi	itization: Sensitization possible through skin contact.	
- Addition	al toxicological information:	
The produc Irritant	ct shows the following dangers according to internally approved calculat	ion methods for preparations:
- Carci	inogenic categories	
- IA	RC (International Agency for Research on Cancer)	
CAS: 80-62-6	methyl methacrylate	3
CAS: 128-37-0	D Butylated hydroxytoluene	3
CAS: 98-82-8	Cumene	2B
- N	TP (National Toxicology Program)	
CAS: 98-82-8		R
2 Ecological	information	
- General I Water haz	notes: ard class 1 (Self-assessment): slightly hazardous for water	
Water haz Do not allo - Results of P - PBT: Not - vPvB: No - Other adver	ard class 1 (Self-assessment): slightly hazardous for water ow undiluted product or large quantities of it to reach ground water, wate PBT and vPvB assessment applicable. ot applicable. Se effects No further relevant information available.	r course or sewage system.
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- 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: - Stowage Category	F-E,S-D 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
UN "Model Regulation":	UN 1133 ADHESIVES, 3, III

^{*}15 Regulatory information

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

- Sara

- Se	ction 355 (extremely hazardous substances):
None of the ing	edients is listed.
- Se	ction 313 (Specific toxic chemical listings):
CAS: 80-62-6	methyl methacrylate
CAS: 108-31-6	maleic anhydride
CAS: 80-15-9	dimethylbenzyl hydroperoxide
	Monofunctional acid ester
CAS: 98-82-8	Cumene
- TSCA	(Toxic Substances Control Act):
All components	have the value ACTIVE.
- Canad	ian substance listings:
- Ca	nadian 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: 108-31-6	maleic anhydride
CAS: 614-45-9	tert-butyl perbenzoate

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CAS: 80-15-9	dimethylbenzyl hydroperoxide
	Monofunctional acid ester
	Wax
CAS: 128-37-0	Butylated hydroxytoluene
CAS: 150-76-5	mequinol
CAS: 98-82-8	Cumene
	Polymerization inhibitor
CAS: 617-94-7	2-Phenyl-2-propanol
- Ca	nadian Non-Domestic Substances List (NDSL)
None of the ing	redients is listed.
- Ca	nadian Ingredient Disclosure list (limit 0.1%)
CAS: 108-31-6	maleic anhydride
- Ca	nadian Ingredient Disclosure list (limit 1%)
CAS: 80-62-6	methyl methacrylate
CAS: 688-84-6	2-ethylhexyl methacrylate
CAS: 868-77-9	2-hydroxyethyl methacrylate
Chamical sa	faty assassment: A Chamical Safety Assassment 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

- 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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