

SAFETY DATA SHEET Permabond MH199

1. Identification		
Product identifier		
Product name	Permabond MH199	Chemical [™]
Recommended use of the che	emical and restrictions on use	Concepts
Restriction on use	Adhesive. Sealant.	Our expertise is your solution.
Details of the supplier of the safety data sheet		chemical-concepts.com
Supplier	Permabond LLC 14 Robinson Street Pottstown, PA 19464 USA Telephone: 732-868-1372 or 800-640-7599 Website: www.permabond.com	800.220.1966 410 Pike Road • Huntingdon Valley, PA 19006
Emergency telephone number	ŗ	
Emergency telephone	Medical: Poison Control Center 866-827-628 CHEMTREC 800-424-9300	32 (toll free) or 303-389-1109 Transport:
2. Hazard identification		
Classification of the substance	e or mixture	
Physical hazards	Not Classified	
Health hazards	Eye Dam. 1 - H318 Skin Sens. 1 - H317	
Label elements		
Pictogram		
Signal word	Danger	
Hazard statements	H317 May cause an allergic skin reaction. H318 Causes serious eye damage.	

Precautionary statements	 P260 Do not breathe vapour/ spray. P261 Avoid breathing vapour/ spray. P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 IF ON SKIN: Wash with plenty of water.
	 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/ doctor. P314 Get medical advice/ attention if you feel unwell. P332+P313 If skin irritation occurs: Get medical advice/ attention. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse.
	Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.
Contains	N,N-m-PHENYLENEDIMALEIMIDE

Other hazards

This product contains N,N-(m-phenylene)dimaleimide which, in powder form, is classified as very toxic by inhalation. When present in solution, as in this case, such exposure can be excluded under normal working conditions and so this product is not labelled as such. However, if during use, there is a possibility that an aerosol mist may be formed then appropriate measures must be taken to exclude exposure by inhalation.

3. Composition/information on ingredients

Mixtures

N,N-(m-PHENYLENE)DIMALEIMIDE

CAS number: 3006-93-7

Classification Acute Tox. 4 - H302 Acute Tox. 2 - H330 Skin Sens. 1 - H317 Not relevant.

CUMENE HYDROPEROXIDE

CAS number: 80-15-9

Classification

Org. Perox. E - H242 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335 STOT RE 2 - H373 Not relevant.

The full text for all hazard statements is displayed in Section 16.

4. First-aid measures

<1%

5-10%

Description of first aid measure	95	
Inhalation	Move the exposed person to fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. If breathing stops, provide artificial respiration. Get medical attention.	
Ingestion	Do not induce vomiting unless under the direction of medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.	
Skin contact	Wash skin thoroughly with soap and water. Take off contaminated clothing and wash it before reuse. Get medical attention.	
Eye contact	Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention.	
Most important symptoms and	effects, both acute and delayed	
Inhalation	May cause respiratory irritation.	
Ingestion	May cause irritation.	
Skin contact	Causes skin irritation. May cause an allergic skin reaction.	
Eye contact	Causes serious eye damage.	
Indication of any immediate m	edical attention and special treatment needed	
Notes for the doctor	No specific recommendations. Treat symptomatically.	
5. Fire-fighting measures		
Extinguishing media		
Suitable extinguishing media	Water spray, foam, dry powder or carbon dioxide.	
Specific hazards arising from t	he hazardous product	
Hazardous combustion products	Burning produces irritating, toxic and obnoxious fumes. Carbon monoxide, carbon dioxide, and unknown hydrocarbons.	
Advice for firefighters		
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.	
6. Accidental release measure	\$	
Personal precautions, protection	ve equipment and emergency procedures	
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.	
Environmental precautions		
Environmental precautions	Avoid discharge into drains.	
Methods and material for containment and cleaning up		
Methods for cleaning up	Absorb spillage with sand or other inert absorbent. Collect and place in suitable waste disposal containers and seal securely.	
Reference to other sections		
Reference to other sections	For personal protection, see Section 8. For waste disposal, see section 13.	
7. Handling and storage		
Precautions for safe handling		

Usage precautions	Avoid contact with skin, eyes and clothing. Use only in well-ventilated areas. Keep container tightly sealed when not in use. Wash hands thoroughly after handling.	
Conditions for safe storage, including any incompatibilities		
Storage precautions	Store in tightly-closed, original container in a dry and cool place.	
Specific end use(s)		
Usage description	Adhesive. Sealant.	
8. Exposure controls/Persona	I protection	
Exposure controls		
Appropriate engineering controls	Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.	
Eye/face protection	Use safety goggles and face shield in case of splash risk.	
Hand protection	Nitrile rubber or Viton™ gloves are recommended. Cotton or other absorbent gloves should not be worn.	
Other skin and body protection	Employee must wear appropriate protective clothing and equipment to prevent any possibility of skin contact with this substance.	
Hygiene measures	Wash at the end of each work shift and before eating, smoking and using the toilet.	
Respiratory protection	No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs. Use NIOSH approved respirator if there is potential to exceed exposure limit(s).	

9. Physical and chemical properties

Information on basic physical and chemical properties

Information on basic physical	and chemical properties
Appearance	Coloured paste.
Colour	Red.
Odour	Acrylic
Odour threshold	Not available.
рН	Not relevant.
Melting point	Not available.
Initial boiling point and range	Not applicable.
Flash point	>93°C (199.94°F)
Evaporation rate	Not available.
Evaporation factor	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.1
Bulk density	Not available.

Solubility(ies)	Slightly soluble in water. Miscible with the following materials: acetone
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	≈225000 mPa s @ 23°C Thixotropic
Oxidising properties	Not available.
Other information	Not relevant.
Volatile organic compound	<2 %, 20 grams/liter (Estimated)
10. Stability and reactivity	
Reactivity	The following materials may react with the product: Strong oxidizing agents.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	There are no known reactivity hazards associated with this product. Polymerization may occur at elevated temperature or in the presence of incompatible materials
Conditions to avoid	Avoid the absence of air, and metal contamination.
Materials to avoid	Metals and their salts. Free radical initiators. Strong alkalis. Strong oxidizing agents. Strong reducing agents. Alkalis.
Hazardous decomposition products	Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.
11. Toxicological information	
Information on toxicological ef	fects
Toxicological effects	The toxicological properties of this product have not been fully evaluated. Avoid direct contact with skin or eyes. Do not ingest or inhale.
Skin corrosion/irritation Skin corrosion/irritation	Based on available data the classification criteria are not met.
Serious eye damage/irritation Serious eye damage/irritation	Risk of serious damage to eyes.
	Nak of serious damage to eyes.
Respiratory sensitization Respiratory sensitization	Based on available data the classification criteria are not met.
Respiratory sensitization Skin sensitization Skin sensitization Germ cell mutagenicity	Based on available data the classification criteria are not met. May cause sensitization by skin contact.
Respiratory sensitization Skin sensitization Skin sensitization	Based on available data the classification criteria are not met.
Respiratory sensitization Skin sensitization Skin sensitization Germ cell mutagenicity	Based on available data the classification criteria are not met. May cause sensitization by skin contact.

Reproductive toxicity		
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.	
Reproductive toxicity -	Based on available data the classification criteria are not met.	
development		
Specific target organ toxicity -	single exposure	
STOT - single exposure	Based on available data the classification criteria are not met.	
Specific target organ toxicity - repeated exposure		
STOT - repeated exposure	Based on available data the classification criteria are not met.	
Aspiration hazard		
Aspiration hazard	Based on available data the classification criteria are not met.	
Inhalation	In high concentrations, vapours may irritate throat and respiratory system and cause	
	coughing.	
Ingestion	May cause irritation.	
Skin contact	May cause skin sensitization or allergic reactions in sensitive individuals.	
Eye contact	Risk of serious damage to eyes.	
Route of exposure	Skin and/or eye contact	
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Toxicological information on ingredients

N,N-(m-PHENYLENE)DIMALEIMIDE

Acute toxicity - oral		
Acute toxicity oral (LD₅₀ mg/kg)	500.0	
Species	Rat	
Acute toxicity - inhalation		
Acute toxicity inhalation (LC₅₀ dust/mist mg/l)	0.055	
Species	Rat	
Skin corrosion/irritation		
Human skin model test	Cell Viability 3.3 60 minutes Not irritating.	
Serious eye damage/irritation		
Serious eye damage/irritati	on	
Serious eye damage/irritati Serious eye damage/irritation	on Not irritating.	
Serious eye		
Serious eye damage/irritation		
Serious eye damage/irritation Skin sensitization	Not irritating.	
Serious eye damage/irritation Skin sensitization Skin sensitization	Not irritating.	
Serious eye damage/irritation Skin sensitization Skin sensitization Germ cell mutagenicity	Not irritating. Local lymph node assay (LLNA) - Mouse: Sensitising.	
Serious eye damage/irritation Skin sensitization Skin sensitization Germ cell mutagenicity Genotoxicity - in vitro	Not irritating. Local lymph node assay (LLNA) - Mouse: Sensitising.	

Reproductive toxicity - fertility	Screening - NOAEL 240 mg/kg/day, Oral, Rat P	
Specific target organ toxicity - single exposure		
STOT - single exposure No information available.		
Specific target organ toxicity - repeated exposure		
STOT - repeated exposure	No information available.	
Aspiration hazard		
Aspiration hazard	No information available.	
	CUMENE HYDROPEROXIDE	
Acute toxicity - oral		
Acute toxicity oral (LD₅₀ mg/kg)	328.0	
Species	Rat	
Acute toxicity - dermal		
Acute toxicity dermal (LD₅ mg/kg)	1,200.0	
Species	Rat	
Acute toxicity - inhalation		
Acute toxicity inhalation (LC₅₀ dust/mist mg/l)	1.37	
Species	Rat	
Skin corrosion/irritation		
Animal data	Highly irritating.	
Serious eye damage/irritati	on	
Serious eye damage/irritation	Irritating to eyes.	
Skin sensitization		
Skin sensitization	Not sensitising.	
Germ cell mutagenicity		
Genotoxicity - in vitro	Positive.	
Genotoxicity - in vivo	This substance has no evidence of mutagenic properties.	
Carcinogenicity		
Carcinogenicity	CMR: No	
Reproductive toxicity		
Reproductive toxicity - fertility	No specific test data are available.	
Reproductive toxicity - development	Developmental toxicity: - NOAEL: ≥100 mg/kg/day, Oral, Rat	
Specific torget orgen tovicit		

Specific target organ toxicity - single exposure

STOT - single ex	posure No specific test data are available.		
Specific target organ toxicity - repeated exposure			
STOT - repeated	exposure Toxic: danger of serious damage to health by prolonged exposure through inhalation.		
Aspiration hazard	Aspiration hazard		
Aspiration hazard	No specific test data are available.		
12. Ecological information			
Toxicity	No data available.		
Bioaccumulative potential			
Partition coefficient	Not available.		
13. Disposal considerations			
Waste treatment methods			
General information	Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.		
Disposal methods	Dispose of according to Federal, State and local governmental regulations.		
14. Transport information			
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, TDG).		
UN number			
UN No. (International)	Not applicable.		
UN No. (DOT)	Not applicable.		
UN proper shipping name			
Proper shipping name (International)	Not applicable.		
Proper shipping name (DOT)	Not applicable.		
Transport hazard class(es)			
Transport Labels (International)	No transport warning sign required.		
DOT transport label			
Packing group			
Packing group (International)	Not applicable.		
DOT packing group	Not applicable.		
Environmental hazards			
Environmentally hazardous su No.	bstance/marine pollutant		
Special precautions for user			
Not applicable.			

DOT reportable quantity	Not applicable.
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DOT TIH Zone Not applicable.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

16. Other information	
Classification abbreviations and acronyms	Eye Dam. = Serious eye damage Skin Sens. = Skin sensitisation
Revision date	2018-10-01
Revision	3
Supersedes date	2018-01-31
Hazard statements in full	 H242 Heating may cause a fire. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H330 Fatal if inhaled. H331 Toxic if inhaled. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure.



This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.