

MSDS

Material Safety Data Sheet



PERMABOND[®] MM 115

READ MATERIAL SAFETY DATA SHEET BEFORE HANDLING PRODUCT!

Issue Date 10/09/06

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

PRODUCT NAME

Manufacturer

PERMABOND[®] MM 115

PERMABOND LLC

20 World's Fair Drive

Somerset, NJ 08873

EMERGENCY PHONES:

MEDICAL – 1-866-827-6282

TRANSPORT – (CHEMTREC) – 1-800-424-9300

MSDS REQUESTS: HELP LINE: 1-800-640-7599

SYNONYMS

None

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL FAMILY	Component	CAS NUMBER	CONCENTRATION (%)
	Tetraethylene glycol dimethacrylate, 85%	109-17-1	30 - 60
	POLYETHYLENE GLYCOL 400 DILAURATE	9005-02-1	10 - 30
	2-Hydroxyethyl methacrylate	868-77-9	10 - 30
	Cumene hydroperoxide	80-15-9	1 - 5
	Saccharin	81-07-2	1 - 5
	Methacrylic acid	79-41-4	0.1 - 1

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

EYE IRRITANT.
SKIN IRRITANT.
SKIN SENSITIZER.
Blue Liquid Mild, pleasant odor

EYE

Will cause eye irritation. May cause permanent damage if eye is not immediately irrigated.

SKIN CONTACT

Repeated and/or prolonged contact may cause irritation and skin sensitisation.

INHALATION

Irritating and/or toxic vapors may be released at elevated temperatures. Unlikely to be hazardous by inhalation because of the low vapor pressure of the material at ambient temperature.

INGESTION

May cause nausea, vomiting and diarrhea.

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4. FIRST-AID MEASURES

EYE	Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain immediate medical attention.
SKIN CONTACT	Flush exposed areas thoroughly with soap and water until all chemical is removed. Remove contaminated clothing and launder before reuse.
INHALATION	Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Call for proper medical attention. Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention.
INGESTION	DO NOT induce vomiting. If individual is conscious, give milk or water to dilute stomach contents. Keep warm and quiet. Get prompt medical attention. DO NOT attempt to give anything by mouth to an unconscious person.

5. FIREFIGHTING MEASURES

AUTOIGNITION	None Established
FLASH POINT	230 °F (Setaflash Closed Tester)
EXTINGUISHING MEDIA	CO ₂ ; Dry Chemical; Foam; Water Fog
SPECIAL FIREFIGHTING PROCEDURES	Fire fighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.; Cool exposed equipment with water spray.
FIRE & EXPLOSION HAZARDS	Polymerization may take place at elevated temperatures.
FLAMMABILITY HAZARD CLASS	1 = Slight.

6. ACCIDENTAL RELEASE MEASURES

Spill AND LEAK PROCEDURES	Wear protective clothing. Stop leak if you can do it without risk. For small spills take up with sand or other inert absorbent material and place in a container for later disposal. Note: in bulk quantities, product absorbed on inert material may polymerize generating significant heat and pressure. Vent disposal container to prevent buildup of pressure. Can carefully solidify with anaerobic surface conditioner and dispose of as solid waste.
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For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE	≤ 27 °C 80 °F
HANDLING/STORAGE	Keep away from heat, sources of ignition and direct sunlight. Keep material refrigerated at the storage temperature referenced above. Do not freeze.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	EXPOSURE LIMITS
2-Hydroxyethyl methacrylate	Manufacturer: 3 ppm
Saccharin	ACGIH-TWA: 10 mg/m ³ ACGIH-TWA Respirable: 3 mg/m ³ OSHA-PEL: 15 mg/m ³ OSHA-PEL Respirable: 5 mg/m ³
Methacrylic acid	ACGIH-TWA: 20 ppm (Skin) OSHA-PEL: 20 ppm
VENTILATION REQUIREMENTS	General.
EYE PROTECTION REQUIREMENTS	Safety glasses, goggles or face shield to protect against splashing.
GLOVE REQUIREMENTS	Employee must wear appropriate protective gloves to prevent contact with this substance.
CLOTHING REQUIREMENTS	No special clothing required for low volume activity.
WASH REQUIREMENTS	Wash before eating, drinking, or using toilet facilities.
RESPIRATOR REQUIREMENTS	None required under normal handling conditions. Use NIOSH approved respirator if vapor or mist levels are irritating.

9. PHYSICAL AND CHEMICAL PROPERTIES

PURE SUBSTANCE OR MIXTURE	Mixture
PHYSICAL FORM	Liquid
COLOR	Blue
ODOR	Mild, pleasant
ODOR THRESHOLD	None Established
MOLECULAR WEIGHT	Not applicable
PH AS IS	Not applicable
pH IN (1%) SOLUTION	Not applicable
OXIDIZING PROPERTIES	Not applicable
MELTING/FREEZING POINT	None Established
SOLUBILITY IN WATER	Insoluble
PARTITION COEFFICIENT (n-octanol/water)	None Established
VISCOSITY	1000 cPs
SPECIFIC GRAVITY (WATER=1)	1.07
BULK DENSITY	8.91 lb/gal
EVAPORATION RATE	None Established
VAPOR PRESSURE (mmHg)	0.01
VAPOR DENSITY (air = 1)	1.01
VOLATILES	< 1 %
VOLATILE ORGANIC COMPOUNDS	0.09 lb/gal
AUTOIGNITION	None Established
FLASH POINT	230 °F (Setaflash Closed Tester)

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11. TOXICOLOGICAL INFORMATION (CONTINUED)

INHALATION TOXICITY

Tetraethylene glycol
dimethacrylate, 85%

May cause irritation to eyes and respiratory system. Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

2-Hydroxyethyl
methacrylate

Vapors and/or aerosols may cause irritation. Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract. Avoid breathing vapors or mists.

Cumene hydroperoxide Inhalation LC50 (6.00hr):
Rat 700 ppm

Inhalation of dust or vapor may cause severe irritation to the nasal passages and/or the respiratory system. Exposure to high concentrations may produce lung damage. Avoid breathing vapors or mists.

Saccharin

Dust is irritant to the respiratory tract.

NOTES ON EYE IRRITATION

Tetraethylene glycol
dimethacrylate, 85%

Irritating, but does not injure eye tissue.

2-Hydroxyethyl
methacrylate

Severe/very severe irritant.

Cumene hydroperoxide

Extremely severe irritant/corrosive. May cause severe burns which could lead to permanent damage or total loss of vision.

Saccharin

Particulates may scratch eye surfaces and cause mechanical irritation.

12. ECOLOGICAL INFORMATION

POTENTIAL TO BIOACCUMULATE
AQUATIC TOXICITY

Unknown.
None Established

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS

Disposal should be in accordance with local, state or national legislation.

EMPTY CONTAINER WARNINGS

Empty containers may contain product residue; follow MSDS and label warnings even after they have been emptied.

14. TRANSPORTATION INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION GROUND (49CFR)

Proper Shipping Name: Unrestricted
Hazard Class or Division: None
Identification Number: None
Packing Group: None

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14. TRANSPORTATION INFORMATION – CONT'D

INTERNATIONAL AIR SHIPMENT TRANSPORTATION (ICAO/IATA)

Proper Shipping Name: Unrestricted
Hazard Class or Division: None
Identification Number: None
Packing Group: None

WATER TRANSPORTATION (IMO/IMDG)

Proper Shipping Name: Unrestricted
Hazard Class or Division: None
Identification Number: None
Packing Group: None
Marine Pollutant: None

15. REGULATORY INFORMATION

USA

TSCA All components are on the TSCA inventory.

SARA/TITLE III	CAS NUMBER	CONCENTRATION (%)
Cumene hydroperoxide	80-15-9	2.76
Saccharin (Manufacturing, no supplier notification)	81-07-2	2.00
[1,2-Benzisothiazol-3(2H)-one,1,1-dioxide]. cumene	98-82-8	0.24

CALIFORNIA PROPOSITION 65

WARNING: This product contains the following chemicals that are known to the State of California to cause cancer, birth defects or other reproductive harm:

	CAS NUMBER
SACCHARIN	81-07-2

16. OTHER INFORMATION

MSDS DATE 10/09/06

This MSDS contains changes from the previous one in section 14; Update on Transportation Information.

FOR INFORMATION CONTACT: Permabond LLC
HELP Line: 1-800-640-7599

ADDITIONAL INFORMATION: The information given and the recommendations made herein apply to our product(s) alone and are not combined with other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guaranty of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.