

# MSDS

## Material Safety Data Sheet

### PERMABOND® LH-150



**READ MATERIAL SAFETY DATA SHEET BEFORE HANDLING PRODUCT!**

Issue Date 10/10/06

#### **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NUMBER	
PRODUCT NAME	PERMABOND® LH 150
Manufacturer	PERMABOND LLC 20 World's Fair Drive Somerset, NJ 08873
	<u>EMERGENCY PHONES:</u> 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	Anaerobic Adhesive/Sealant	
COMPONENT	CAS NUMBER	CONCENTRATION (%)
Tetraethylene glycol dimethacrylate, 85%	109-17-1	30 - 60
EDTA Tetrasodium salt	64-02-8	1 - 5
Saccharin	81-07-2	0.1 - 1

#### **3. HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW:	EYE IRRITANT. SKIN IRRITANT. SKIN SENSITIZER. White Paste 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 sensitization.
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.

#### **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.

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#### **5. FIREFIGHTING MEASURES**

AUTOIGNITION	None Established
FLASH POINT	230 °F (Setaflash Closed Tester)
EXTINGUISHING MEDIA	CO2; 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.

#### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

COMPONENT	EXPOSURE LIMITS
Saccharin	ACGIH-TWA: 10 mg/m3 ACGIH-TWA Respirable: 3 mg/m3 OSHA-PEL: 15 mg/m3 OSHA-PEL Respirable: 5 mg/m3
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.

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#### **9. PHYSICAL AND CHEMICAL PROPERTIES**

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PURE SUBSTANCE OR MIXTURE	Mixture
PHYSICAL FORM	Paste
COLOR	White
ODOR	Mild, pleasant
ODOR THRESHOLD	None Established
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	200000 cPs
SPECIFIC GRAVITY (WATER=1)	1.07
BULK DENSITY	8.91 lb/gal
EVAPORATION RATE	Not applicable
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)

#### **10. STABILITY AND REACTIVITY**

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STABILITY	Stable
MATERIALS TO AVOID	Metals and their salts, Permabond anaerobic surface conditioners
REACTIVITY HAZARD CLASS	2 = Reactive material.
HAZARDOUS DECOMPOSITION PRODUCTS	Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.
HAZARDOUS POLYMERIZATION CONDITIONS	Note! PERMA-LOK(R) products are anaerobic and polymerize in the absence of air. Sunlight, excessive heat, and contamination by metals or anaerobic surface conditioner in large quantities, will also cause polymerization.

#### **11. TOXICOLOGICAL INFORMATION**

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ROUTE OF ENTRY	Skin Contact; Eye Contact; Ingestion
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#### **CHRONIC (LONG TERM) EFFECTS OF EXPOSURE**

TARGET ORGANS	Skin; Eyes
CARCINOGEN	No.

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**11. TOXICOLOGICAL INFORMATION – CONT'D**

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**ORAL TOXICITY**

Tetraethylene glycol  
dimethacrylate, 85%

Low oral toxicity.

Saccharin

Oral LD50: Mouse 17 g/kg

No hazard in normal industrial use.

**DERMAL TOXICITY**

Tetraethylene glycol  
dimethacrylate, 85%  
EDTA Tetrasodium salt

Irritating to the skin. Repeated and/or prolonged  
contact may cause skin sensitization.

Severely irritating; may cause permanent skin  
damage.

Saccharin

Repeated and/or prolonged contact may cause skin  
sensitization. May cause photosensitization  
evidenced by repeated occurrence of dermatitic rash  
on exposure to sunlight.

**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.

EDTA Tetrasodium salt

Vapor may be irritant to the respiratory tract.

Saccharin

Avoid breathing vapors or mists.

Dust is irritant to the respiratory tract.

**NOTES ON EYE IRRITATION**

Tetraethylene glycol  
dimethacrylate, 85%  
EDTA Tetrasodium salt  
Saccharin

Irritating, but does not injure eye tissue.

Severe/very severe irritant.

Particulates may scratch eye surfaces and cause  
mechanical irritation.

**12. ECOLOGICAL INFORMATION**

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POTENTIAL TO BIOACCUMULATE  
AQUATIC TOXICITY

Unknown.  
None Established

**13. DISPOSAL CONSIDERATIONS**

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WASTE DISPOSAL METHODS  
EMPTY CONTAINER WARNINGS

Disposal should be in accordance with local, state or national legislation.  
Empty containers may contain product residue; follow MSDS and label  
warnings even after they have been emptied.

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#### **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

##### **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 (%)
Saccharin (Manufacturing, no supplier notification)	81-07-2	0.8
[1,2-Benzisothiazol-3(2H)-one,1,1-dioxide].		

##### **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

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**16. OTHER INFORMATION**

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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.