



# **Safety Data Sheet**

# PERMABOND ET510 B

Revision Number: 1 Issue date: 05/05/15

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** PERMABOND ET510 B Telephone: 732-868-1372 or 800-640-7599

Product Type: Epoxy Hardener Website: www.permabond.com

Company: PERMABOND LLC

14 Robinson Street

Pottstown, PA 19464

USA

Emergency Telephone:

Medical: Poison Control Center 866-827-6282 (toll free)

or 303-389-1109

Transport: CHEMTREC 800-424-9300

#### 2. HAZARDS IDENTIFICATION

DANGER: CAUSES SEVERE SKIN BURNS

CAUSES EYE DAMAGE

MAY CAUSE AN ALLERGIC SKIN REACTION

HAZARD CLASS	HAZARD CATEGORY
SERIOUS EYE DAMAGE	1
SKIN CORROSION	1B
SKIN SENSITIZATION	1

PICTOGRAM(S)	

#### **Precautionary Statements**

Prevention: Avoid breathing vapors, mist or spray. Wash thoroughly after handling. Wear protective

gloves and eye protection. Contaminated clothing should laundered separately.

Response: IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. IF INHALED: Remove person

to fresh air and keep comfortable for breathing. IF IN EYES: Immediately rinse cautiously with plenty of water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Immediately call a poison control center or a physician.

IF ON SKIN: Immediately remove contaminated clothing. Rinse with plenty of soap and water. If skin irritation occurs: Get medical attention. Wash contaminated clothing before

reuse.

Storage: Store locked up.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).



Disposal: Dispose of according to Federal, State/Provincial and local governmental regulations.

Existing conditions aggravated by exposure:

Skin, eye and respiratory disorders.

See Section 11 for additional toxicological information.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components **CAS NUMBER CONCENTRATION (%)\*** 

Mercaptan terminated polymer proprietary 60 - 100

Triethylenetetramine 112-24-3 5 - 15

\*Exact concentration is a trade secret. Concentration ranges are provided to assist user in determining appropriate protection.

#### 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult give oxygen. If symptoms develop and persist, get medical attention.

Skin contact: Immediately wash with soap and water. Remove contaminated clothing and shoes. Get medical attention if

symptoms develop and persist. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye contact: Immediately flush with large amounts of water for at least 15 minutes. Get immediate medical attention.

Ingestion: Do not induce vomiting. Keep individual calm and get medical attention. Never give anything by mouth to an

unconscious person.

Symptoms: See section 11

#### 5. FIRE-FIGHTING MEASURES

Extinguishing media: Water spray or fog, dry chemical or carbon dioxide.

Special fire fighting procedures: Wear self-contained breathing apparatus and protective clothing. In case of fire keep

container cool with water spray.

Unusual fire or explosion hazards: Keep container cool with water spray. Uncontrolled polymerization may occur at high

temperature resulting in explosions or rupturing containers.

Hazardous combustion products: Toxic and/or irritating organic vapors may be generated. Oxides of carbon. Oxides of

nitrogen. Amines.



# 6. ACCIDENTAL RELEASE MEASURES

Use personal protection equipment recommended in section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Remove sources of ignition. Prevent product from entering drains or waterways.

Clean-up methods: Dyke spill to prevent from entering water ways. Ventilate area. Wear protective

equipment to clean up. Soak up spill using absorbent material such as sand, silica gel, acid binder, universal binder, or saw dust. Scrape as much material as possible and store in partially filled container until disposal. Refer to section 8 (Exposure Controls/

Personal Protection) before clean up.

#### 7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.

Keep container tightly closed. Keep away from heat, sparks and flames.

Storage: Store in original container in a cool well ventilated area away from heat, sparks, and flames. For safe storage,

store below 37.8(100°F).

For shelf life information contact Permabond customer service at (800)714-0170

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employees should complete an assessment of all workplaces to determine the need for and selection of proper exposure controls and protective equipment before each task is started.

Hazardous components **ACGIH TLV OSHA PEL AIHA WEEL OTHER** Mercaptan terminated polymer None None None None 1 ppm (6 gm/m3) Triethylenetetramine None None None TWA (skin)

Engineering controls: Use local exhaust ventilation to maintain worker exposure below established exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Skin protection: Use chemical resistant/ impermeable gloves and protective clothing to prevent skin contact.

**Eye/face protection:** Safety goggles or safety glasses with side shields.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Color: Transparent, Clear

Odor: Mercaptan
Odor threshold: Not Available
pH: Not applicable
Vapor pressure: Not available



Boiling point/range: Not available
Melting point/range: Not available

Specific gravity: 1.1

Solubility in water:

Vapor density:

Flash point:

Flammable/Explosive limits – Lower:
Flammable/Explosive limits – upper:
Autoignition Temperature:
Evaporation rate:

Not available
Not available
Not available
Not available

Partition coefficient (n-octanol/water): Not available Decomposition temperature: Not available

VOC content: <2 %, 20 grams/liter (Estimated) (for resin and hardener mixed together)

Slight

# 10. STABILITY AND REACTIVITY

Stability: Stable when stored under the recommended storage conditions

**Hazardous reactions:**None under normal processing conditions. In the presence incompatible materials

or high temperature polymerization may occur.

Hazardous decomposition products: Oxides of carbon. Oxides of nitrogen. Amines Irritating organic vapors.

**Incompatible materials:** Strong oxidizing agents. Strong bases. Strong acids.

Conditions to avoid: Contact with incompatible materials which may cause polymerization. Excessive

heat.

# 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

#### Potential Health Effects/Symptoms

Inhalation: Inhalation of vapors may cause allergic respiratory reaction. Inhalation of vapor or mist

may cause mild respiratory track irritation.

**Skin contact:** May cause skin burns. Allergic skin reaction.

**Eye contact:**Causes serious eye damage. **Ingestion:**Causes burns. May cause burns of the mouth and throat.

Hazardous components	LD50	LC50	Immediate and delayed Health Effects
Mercaptan terminated polymer	None available	None available	No records available
Triethylenetetramine	LD50 – ORAL (RAT) 2,500 mg/Kg LD50 – DERMAL (RABBIT) 550 mg/Kg	None	Allergen, Corrosive, Irritant

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Mercaptan terminated polymer	No	No	No
Triethylenetetramine	No	No	No



# 12. ECOLOGICAL INFORMATION

**Ecological information**: Not Available

# 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State/Provincial and local governmental

regulations. Refer to section 8 (Exposure Controls/Personal Protection) before

nandling.

# 14. TRANSPORT INFORMATION

#### U.S. Department of Transportation Ground (49 CFR):

Proper shipping name: Polyamides, liquids corrosive, n.o.s. (contains tetraethylenetetramine)

Hazard class or division:

Identification number:UN 2735Packing group:IIIExceptions:None

#### International Air Transportation (ICAO/IATA):

**Proper shipping name:** Polyamides, liquids corrosive, n.o.s. (contains tetraethylenetetramine)

Hazard class or division: 8

Identification number: UN 2735
Packing group: III

# Water Transportation (IMO/IMDG):

Proper shipping name: Polyamides, liquids corrosive, n.o.s. (contains tetraethylenetetramine)

Hazard class or division:

Identification number:UN 2735Packing group:III

Marine pollutant: No



# 15. REGULATORY INFORMATION

**United States Regulatory Information** 

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances

Control Act Inventory.

TSCA 12 (b) Export Notification: None above the reporting limits. CERCLA/SARA Section 302 EHS: None above the reporting limits.

CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Fire, Reactive

CERCLA/SARA 313: This product contains the following toxic chemicals subject to the reporting

requirements of section 313 of the Emergency Planning and Community Right-

To-Know Act of 1986 (40 CFR 372).

**CERCLA Reportable quantity:** 

California Proposition 65: No chemical listed on the California Proposition 65 are known to be present.

**Canada Regulatory Information** 

**CEPA DSL/NDSL Status:** All components are listed on or are exempt from listing on the Domestic

Substances List.

# **16. OTHER INFORMATION**

This safety data sheet contains changes from the previous one: New format

Issue date: 05/05/15

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.