

Safety Data Sheet

PERMABOND MT382 A

Revision Number: 3

Issue date: 08/03/15

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: PERMABOND MT382 A
Product Type: Epoxy Resin

Telephone: 732-868-1372 or 800-640-7599
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

WARNING: CAUSES SERIOUS EYE IRRITATION
CAUSES SKIN IRRITATION
MAY CAUSE AN ALLERGIC SKIN REACTION

| HAZARD CLASS | HAZARD CATEGORY |
|--------------------|-----------------|
| EYE IRRITATION | 2A |
| SKIN IRRITATION | 2 |
| 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 work clothing must not be allowed out of the work place.

Response: IF IN EYES: Rinse cautiously with plenty of water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN: Rinse with plenty of soap and water.
If eye irritation occurs: Get medical attention. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse.

Storage: Not prescribed.

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

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).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous components | CAS NUMBER | CONCENTRATION (%)* |
|---------------------------------------|------------|--------------------|
| Epoxy resin – Average MW<= 700 | 25068-38-6 | 10 – 30 |
| (3-Glycidyloxypropyl)trimethoxysilane | 2530-83-8 | 1 – 5 |

*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 symptoms develop and persist, get medical attention. |
| Skin contact: | Immediately wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms develop and persist. |
| 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

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| 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. |

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: | 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.
- Storage:** Store in original container in a cool well ventilated area away from heat, sparks, and flames. 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 |
|--------------------------------------|-----------|----------|-----------|-------|
| Epoxy resin – Average MW<= 700 | None | None | None | None |
| (3-Glycidyoxypropyl)trimethoxysilane | None | None | None | None |

- 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: | Paste |
| Color: | Black |
| Odor: | Mild |
| Odor threshold: | Not Available |
| pH: | Not applicable |
| Vapor pressure: | Not applicable |
| Boiling point/range: | Not applicable) |
| Melting point/range: | Not available |
| Specific gravity: | 1.3 |
| Vapor density: | Not available |
| Flash point: | >100°C (>212°F) |
| Flammable/Explosive limits – Lower: | Not available |
| Flammable/Explosive limits – upper: | Not available |
| Autoignition Temperature: | Not available |
| Evaporation rate: | Not available |
| Solubility in water: | Slight |
| Partition coefficient (n-octanol/water): | Not available |
| Decomposition temperature: | Not available |
| VOC content: | <2 %, 20 grams/liter (Estimated) (for resin and hardener mixed together) |

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. Irritating organic vapors. |
| Incompatible materials: | Strong oxidizing agents. Strong bases. Strong acids. Amines. |
| 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

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| Inhalation: | Inhalation of vapor or mist may cause mild respiratory track irritation. |
| Skin contact: | Allergic skin reaction. Skin irritation. |
| Eye contact: | Causes eye irritation. |
| Ingestion: | Not expected under normal conditions of use. |

| Hazardous components | LD50 | LC50 | Immediate and delayed Health Effects |
|--------------------------------------|---|------|--------------------------------------|
| Epoxy resin – Average MW<= 700 | LD50 – Oral (RAT) 13,600 mg/Kg | None | Allergen, Irritant |
| (3-Glycidyoxypropyl)trimethoxysilane | LD50 – Oral (RAT) 8,030 mg/Kg LD50 – Dermal (RABBIT) 4,248 mg/Kg | None | Allergen, Irritant |

| Hazardous components | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen |
|--------------------------------------|----------------|-----------------|-----------------|
| Epoxy resin – Average MW<= 700 | No | No | No |
| (3-Glycidyoxypropyl)trimethoxysilane | 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 handling.

14. TRANSPORT INFORMATION

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

| | |
|---------------------------|---------------|
| Proper shipping name: | Not regulated |
| Hazard class or division: | None |
| Identification number: | None |
| Packing group: | None |
| Exceptions: | None |

International Air Transportation (ICAO/IATA):

| | |
|---------------------------|---------------|
| Proper shipping name: | Not regulated |
| Hazard class or division: | None |
| Identification number: | None |
| Packing group: | None |

Water Transportation (IMO/IMDG):

| | |
|---------------------------|---------------|
| Proper shipping name: | Not regulated |
| Hazard class or division: | None |
| Identification number: | None |
| Packing group: | None |

Marine pollutant:

15. REGULATORY INFORMATION

United States Regulatory Information

| | |
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| 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: This product does not contain any chemical listed on the California Proposition 65.

Canada Regulatory Information

| | |
|----------------------|--|
| CEPA DSL/NDL Status: | All components are listed on or are exempt from listing on the Domestic Substances List. |
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16. OTHER INFORMATION

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

Issue date: 08/03/15

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.