

MSDS

Material Safety Data Sheet



PERMABOND[®] ANAEROBIC SURFACE CONDITIONER

READ MATERIAL SAFETY DATA SHEET BEFORE HANDLING PRODUCT!

Issue Date 02/17/09

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME PERMABOND[®] ANAEROBIC SURFACE CONDITIONER 10
MANUFACTURER PERMABOND LLC
14 Robinson Street
Pottstown, PA 19464

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 Accelerator/Activator

| COMPONENT | CAS NUMBER | CONCENTRATION (%) |
|-----------|------------|-------------------|
| n-Heptane | 142-82-5 | 60 - 100 |

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

EXTREMELY FLAMMABLE.
EYE IRRITANT. SKIN IRRITANT.
Green Liquid Pungent odor

| | |
|--------------|--|
| EYE | Will cause eye irritation. |
| SKIN CONTACT | Repeated or prolonged contact may cause defatting of the skin resulting in dryness, cracking and dermatitis. Repeated and/or prolonged contact may cause irritation and skin sensation. |
| INHALATION | Vapor may be irritant to the respiratory tract. Atmospheric concentrations in excess of the occupational exposure limit may lead to headache, nausea, and irritation of the eyes, nose and throat. |
| INGESTION | Ingestion may cause irritation of the gastrointestinal tract. Aspiration of the product into the lungs following ingestion may cause pulmonary injury leading to pneumonitis. |

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 | Wash skin with soap and water. Remove grossly contaminated clothing, including shoes, and launder before re-use. Discard shoes. If symptoms (irritation or blistering) persist obtain medical attention. |
| INHALATION | 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. |

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5. FIREFIGHTING MEASURES

| | |
|---------------------------------|--|
| AUTOIGNITION | Not available |
| FLASH POINT | < 20 ∞F (Tagliabue 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 | The vapor is heavier than air and may travel a considerable distance to a source of ignition and flashback. Combustion will evolve toxic and irritant vapors. |
| LOWER EXPLOSION LIMIT (%) | 1.0 |
| UPPER EXPLOSION LIMIT (%) | 7.0 |
| FLAMMABILITY HAZARD CLASS | 4 = Extreme. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|---------------------------|--|
| SPILL AND LEAK PROCEDURES | Evacuate immediate area and dike area to contain spill. Extinguish open flames and ignition sources in the immediate area. Wear proper protective clothing, gloves, and splash goggles. Absorb as much of spilled material as possible with rags, sand, vermiculite or other absorbent material. Scrape absorbed material into designated waste containers. Wash area thoroughly with detergent and rinse, taking care to prevent runoff into drains or other waterways. All spilled material, absorbed waste and wash water must be disposed of in accordance with all Federal state and local regulations. |
|---------------------------|--|

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 | Store in a cool, dry area away from heat, sparks or fire. Do not freeze. |
| SENSITIVITY TO STATIC ELECTRICITY | Yes |
| SENSITIVITY TO MECHANICAL IMPACT | No |
| OTHER PRECAUTIONS | Ground containers securely when transferring contents. Wear low static or properly grounded shoes. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| COMPONENT | EXPOSURE LIMITS |
|-----------------------------|--|
| n-Heptane | ACGIH-STEL: 500 ppm ACGIH-TWA: 400 ppm OSHA-PEL: 400 ppm OSHA-STEL: 500 ppm |
| VENTILATION REQUIREMENTS | Local. Explosion-proof exhaust ventilation. |
| EYE PROTECTION REQUIREMENTS | Goggles. |
| GLOVE REQUIREMENTS | Impervious neoprene or rubber gloves are recommended. |
| CLOTHING REQUIREMENTS | Standard industrial hygiene procedures should be practiced. |
| CHANGE/REMOVAL OF CLOTHING | Remove contaminated clothing and launder before reuse. |
| WASH REQUIREMENTS | Wash before eating, drinking, or using toilet facilities. |
| RESPIRATOR REQUIREMENTS | Avoid prolonged or repeated breathing of vapor or mists. If exposure may or does exceed occupational exposure limits, use a NIOSH approved respirator to prevent overexposure. |

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9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|-----------------------------------|
| PURE SUBSTANCE OR MIXTURE | Mixture |
| PHYSICAL FORM | Liquid |
| COLOR | Green |
| ODOR | Pungent |
| ODOR THRESHOLD | None Established |
| MOLECULAR WEIGHT | Not applicable |
| PH AS IS | Not applicable |
| pH IN (1%) SOLUTION | Not applicable |
| OXIDIZING PROPERTIES | Not applicable |
| BOILING POINT | 201 ∞F |
| MELTING/FREEZING POINT | None Established |
| SOLUBILITY IN WATER | Insoluble |
| PARTITION COEFFICIENT (n-octanol/water) | None Established |
| SPECIFIC GRAVITY (WATER=1) | 0.732 |
| BULK DENSITY | 6.1 lb/gal |
| EVAPORATION RATE | 5.8 (n-Butyl Acetate = 1) |
| VAPOR PRESSURE (mmHg) | 50 @ 25∞C |
| VAPOR DENSITY (air = 1) | 3.4 |
| VOLATILES | 99.8 %/wt |
| VOLATILE ORGANIC COMPOUNDS | 6.09 lb/gal |
| AUTOIGNITION | Not available |
| FLASH POINT | < 20 ∞F (Tagliabue Closed Tester) |

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|--|
| STABILITY | Stable |
| MATERIALS TO AVOID | Strong oxidizers, Strong acids, Bases |
| REACTIVITY HAZARD CLASS | 0 = Stable |
| HAZARDOUS DECOMPOSITION PRODUCTS | Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds. |

11. TOXICOLOGICAL INFORMATION

| | |
|----------------|--|
| ROUTE OF ENTRY | Inhalation; Ingestion; Skin Contact; Eye Contact |
|----------------|--|

CHRONIC (LONG TERM) EFFECTS OF EXPOSURE

| | |
|---------------|---|
| TARGET ORGANS | Central nervous system; Respiratory system; Peripheral nervous system |
| CARCINOGEN | No. |

| COMPONENT | ORAL TOXICITY | NOTES ON ORAL TOXICITY |
|-----------|---------------|--|
| n-Heptane | | Low oral toxicity. Aspiration of the product into the lungs following ingestion may cause pulmonary injury leading to pneumonitis. |

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11. TOXICOLOGICAL INFORMATION – CONT'D

| | | |
|------------------------|---------------------|--|
| COMPONENT n-Heptane | DERMAL TOXICITY | NOTES ON DERMAL TOXICITY Repeated and/or prolonged contact may cause irritation and skin sensation. Corrosive, causes permanent skin damage. Repeated or prolonged contact may cause defatting of the skin resulting in dryness, cracking and dermatitis. |
| COMPONENT n-Heptane | INHALATION TOXICITY | NOTES ON INHALATION TOXICITY Vapor, if generated, can cause irritation of the eyes, nose and respiratory tract. Avoid breathing vapors or mists. |
| COMPONENT n-Heptane | | NOTES ON EYE IRRITATION Irritating, but does not injure eye tissue. |

12. ECOLOGICAL INFORMATION

| | |
|----------------------------|------------------|
| POTENTIAL TO BIOACCUMULATE | Unknown. |
| AQUATIC TOXICITY | 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: | Heptane Solutions |
| Hazard Class or Division: | 3 |
| Identification Number: | UN 1206 |
| Packing Group: | II |
| Exceptions: | Consumer Commodity ORM-D (Not more than 1 Liter) |

INTERNATIONAL AIR SHIPMENT TRANSPORTATION (ICAO/IATA)

| | |
|---------------------------|---|
| Proper Shipping Name: | Heptane Solutions |
| Hazard Class or Division: | 3 |
| Identification Number: | UN 1206 |
| Packing Group: | II |
| Exceptions: | May Qualify as Consumer Commodity ID8000 (Not more than 500 ml) |

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14. TRANSPORTATION INFORMATION – CONT'D

WATER TRANSPORTATION (IMO/IMDG)

Proper Shipping Name: Heptane Solutions
Hazard Class or Division: 3
Identification Number: UN 1206
Packing Group: II
Exceptions: Limited quantity (Not more than 1L)
Marine Pollutant: None

15. REGULATORY INFORMATION

USA

TSCA

All components are on the TSCA inventory.

SARA/TITLE III

Contains no substances at or above the reporting threshold under Section 313.

CAS NUMBER

CONCENTRATION (%)

16. OTHER INFORMATION

MSDS DATE

02/17/09

This MSDS contains change from the previous one in section 1; Update on Manufacturer Address.

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.