



SAFETY DATA SHEET

Permabond LH050

1. Identification

Product identifier

Product name Permabond LH050

Recommended use of the chemical and restrictions on use

Application Adhesive. Sealant.

Details of the supplier of the safety data sheet

Supplier Permabond LLC
14 Robinson Street
Pottstown, PA 19464
USA
Telephone: 732-868-1372 or 800-640-7599
Website: www.permabond.com

Emergency telephone number

Emergency telephone Medical: Poison Control Center 866-827-6282 (toll free) or 303-389-1109 Transport: CHEMTREC 800-424-9300

2. Hazard(s) identification

Classification of the substance or mixture

OSHA Regulatory Status This Product is Not Hazardous under the OSHA Hazard Communication Standard. 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).

Physical hazards Not Classified

Health hazards Not Classified

Label elements

Hazard statements NC Not Classified

Other hazards

None under normal conditions.

3. Composition/information on ingredients

Mixtures

Composition comments None of the ingredients are required to be listed.

4. First-aid measures

Description of first aid measures

Inhalation Move the exposed person to fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. If breathing stops, provide artificial respiration. Get medical attention.

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| Ingestion | Do not induce vomiting unless under the direction of medical personnel. Never give anything by mouth to an unconscious person. Get medical attention. |
| Skin Contact | Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse. |
| Eye contact | Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Get medical attention. |

Most important symptoms and effects, both acute and delayed

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| Skin contact | Prolonged contact may cause redness, irritation and dry skin. |
| Eye contact | May cause temporary eye irritation. |

5. Fire-fighting measures

Extinguishing media

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| Suitable extinguishing media | Water spray, foam, dry powder or carbon dioxide. |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |

Special hazards arising from the substance or mixture

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| Hazardous combustion products | Oxides of carbon. Oxides of nitrogen. Toxic and/or irritating organic vapors may be generated. |
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Advice for firefighters

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| Protective actions during firefighting | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. |
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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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| Personal precautions | Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing, gloves, eye and face protection. |
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Environmental precautions

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| Environmental precautions | Ventilate area. Prevent product from entering drains or waterways. |
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Methods and material for containment and cleaning up

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| Methods for cleaning up | Absorb spillage with sand or other inert absorbent. Collect and place in suitable waste disposal containers and seal securely. |
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| Reference to other sections | For personal protection, see Section 8. |
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7. Handling and storage

Precautions for safe handling

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| Usage precautions | Avoid contact with skin, eyes and clothing. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Do not breathe vapour/spray. Wash hands thoroughly after handling. Keep container tightly sealed when not in use. |
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Conditions for safe storage, including any incompatibilities

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| Storage precautions | Store in tightly-closed, original container in a dry, cool and well-ventilated place. |
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Specific end uses(s)

Permabond LH050

Specific end use(s) Adhesive. Sealant.

8. Exposure Controls/personal protection

Exposure controls

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| Appropriate engineering controls | Use positive down draft exhaust ventilation if general ventilation is insufficient to maintain vapor concentrations below established exposure limits. |
| Eye/face protection | Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for slashing or spraying exists. |
| Hand protection | It is recommended that chemical-resistant, impervious gloves are worn. |
| Other skin and body protection | Wear appropriate clothing to prevent repeated or prolonged skin contact. |
| Hygiene measures | Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. Use of good industrial hygiene practices is required. |
| Respiratory protection | Use NIOSH approved respirator if there is potential to exceed exposure limit(s). |

9. Physical and Chemical Properties

Information on basic physical and chemical properties

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| Appearance | Colored paste. |
| Color | White. |
| Odor | Mild. |
| Odor threshold | Not available. |
| pH | Not available. |
| Melting point | Not applicable. |
| Initial boiling point and range | >149°C (300°F) |
| Flash point | >93°C (199.94°F) |
| Evaporation rate | Not available. |
| Evaporation factor | Not available. |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or explosive limits | Not available. |
| Vapor pressure | 5 mm Hg @ 25°C |
| Vapor density | Not available. |
| Relative density | 1.1 @ 25°C |
| Bulk density | Not available. |
| Solubility(ies) | Not available. |
| Partition coefficient | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition Temperature | Not available. |

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Volatile organic compound <2 %, 20 grams/liter (Estimated)

10. Stability and reactivity

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| Reactivity | Not available |
| Stability | Stable under the prescribed storage conditions. |
| Possibility of hazardous reactions | Under normal conditions of storage and use, no hazardous reactions will occur. Polymerization may occur at elevated temperature or in the presence of incompatible materials |
| Conditions to avoid | Avoid heat, flames and other sources of ignition. |
| Materials to avoid | Strong oxidizing agents. Strong reducing agents. Metals and their salts. Free radical initiators. Alkalis. |
| Hazardous decomposition products | Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds. |

11. Toxicological information

Information on toxicological effects

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| Toxicological effects | The toxicological properties of this product have not been fully evaluated. Avoid direct contact with skin or eyes. Do not ingest or inhale. |
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| <u>Skin corrosion/irritation</u> | |
| Skin corrosion/irritation | Based on available data the classification criteria are not met. |
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| <u>Serious eye damage/irritation</u> | |
| Serious eye damage/irritation | Based on available data the classification criteria are not met. |
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| <u>Respiratory sensitization</u> | |
| Respiratory sensitization | Based on available data the classification criteria are not met. |
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| <u>Skin sensitization</u> | |
| Skin sensitization | Based on available data the classification criteria are not met. |
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| <u>Germ cell mutagenicity</u> | |
| Genotoxicity - in vitro | Based on available data the classification criteria are not met. |
| Genotoxicity - in vivo | Based on available data the classification criteria are not met. |
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| <u>Carcinogenicity</u> | |
| Carcinogenicity | No component of this product present at levels great than or equal to 0.1% is identified as a known carcinogen. |
| IARC carcinogenicity | This product contains a component at levels greater or equal to 0.1% classified as IARC Group 2B Possibly carcinogenic to humans. |
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| <u>Reproductive toxicity</u> | |
| Reproductive toxicity - fertility | Based on available data the classification criteria are not met. |
| Reproductive toxicity - development | Does not contain any substances known to be toxic to reproduction. |
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| <u>Specific target organ toxicity - single exposure</u> | |
| STOT - single exposure | Based on available data the classification criteria are not met. |

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Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Inhalation Unlikely to be hazardous by inhalation because of the low vapor pressure of the product at ambient temperature.

Ingestion No harmful effects expected from quantities likely to be ingested by accident.

Skin Contact Prolonged and frequent contact may cause redness and irritation.

Eye contact May cause temporary eye irritation.

Toxicological information on ingredients.

SILICA, AMORPHOUS, FUMED, CRYSTAL FREE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,000.0

Species Rat

ATE oral (mg/kg) 5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.1

Species Rabbit

ATE dermal (mg/kg) 2,000.1

Skin corrosion/irritation

Animal data Primary dermal irritation index: 0/8 @24hr

12. Ecological Information

Toxicity No data available.

Bioaccumulative potential

Partition coefficient Not available.

13. Disposal considerations

Waste treatment methods

General information Dispose of according to Federal, State/Provincial and local regulations. Refer to section 8 before handling.

Disposal methods Dispose of according to Federal, State and local governmental regulations.

14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

UN Number

Permabond LH050

Not applicable.

UN No. (DOT) Not applicable.

UN proper shipping name

Not applicable.

Proper shipping name (DOT) Not applicable.

Transport hazard class(es)

No transport warning sign required.

DOT transport labels

No transport warning sign required.

Packing group

Not applicable.

DOT packing group Not applicable.

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

Not applicable.

DOT reportable quantity Not applicable.

DOT TIH Zone Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None above reporting levels

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None above reporting limits

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None above reporting limits

SARA 313 Emission Reporting

None present

SARA (311/312) Hazard Categories

None

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

This product contains a chemical known to the state of California to cause cancer.

CUMENE

Permabond LH050

TITANIUM DIOXIDE

Inventories

Canada - DSL/NDSL

All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

The following ingredients are listed or exempt:

CUMENE

16. Other information

Revision date 10/7/2016

Revision 4

Supersedes date 7/25/2015

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.