SAFETY DATA SHEET
Permabond Polyolefin Primer (POP)

1. Identification

Product identifier

Product name Permabond Polyolefin Primer (POP)

Recommended use of the chemical and restrictions on use

Application Primer.

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 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 Communication and Labeling of Chemicals (GHS).

Physical hazards Flam. Liq. 2 - H225

Health hazards Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304

Human health In high concentrations, vapors and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea. Irritating to eyes. Repeated exposure may cause skin dryness or cracking.

Environmental Very toxic to aquatic life with long lasting effects.

Physicochemical The product is highly flammable, and explosive vapors/air mixtures may be formed even at normal room temperatures.

Label elements

Hazard symbols

Signal word Danger

Permabond Polyolefin Primer (POP)

Hazard statements

H225 Highly flammable liquid and vapor.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.

Precautionary statements

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P240 Ground/ bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing vapor/ spray.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P310 If swallowed: Immediately call a poison center/ doctor.
P302+P352 If on skin: Wash with plenty of water.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P312 Call a poison center/ doctor if you feel unwell.
P331 Do NOT induce vomiting.
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Contains

HEPTANE

3. Composition/information on ingredients

Mixtures

HEPTANE **60-100%**

CAS number: 142-82-5

Classification
Flam. Liq. 2 - H225
Skin Irrit. 2 - H315
STOT SE 3 - H336
Asp. Tox. 1 - H304
Not relevant.

1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE **<1%**

CAS number: 6674-22-2

Classification
Acute Tox. 3 - H301
Skin Corr. 1B - H314
Eye Dam. 1 - H318

The full text for all hazard statements is displayed in Section 16.

Permabond Polyolefin Primer (POP)

Composition comments The Data Shown is in accordance with the latest EC Directives.

4. First-aid measures

Description of first aid measures

Inhalation Move affected person to fresh air at once. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.

Ingestion Do not induce vomiting. Get medical attention.

Skin Contact Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

Eye contact Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist after washing.

Most important symptoms and effects, both acute and delayed

General information Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

Inhalation Vapours may cause drowsiness and dizziness.

Ingestion Aspiration hazard if swallowed.

Skin contact Prolonged contact may cause redness, irritation and dry skin.

Indication of immediate medical attention and special treatment needed

Notes for the doctor Avoid vomiting and stomach flushing because of the risk of aspiration.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Foam, carbon dioxide or dry powder.

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

Specific hazards The product is flammable. Heating may generate flammable vapors. Vapors are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.

Hazardous combustion products Irritating gases or vapors. Toxic gases or vapors. Carbon dioxide (CO2). Carbon monoxide (CO).

Advice for firefighters

Protective actions during firefighting Containers close to fire should be removed or cooled with water.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Eliminate all sources of ignition. Provide adequate ventilation.

Permabond Polyolefin Primer (POP)

Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses.

Methods and material for containment and cleaning up

Methods for cleaning up Absorb in vermiculite, dry sand or earth and place into containers.

Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. During application and drying, solvent vapors will be emitted. Avoid contact with skin and eyes. Avoid breathing vapours.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Storage class Flammable liquid storage.

Specific end uses(s)

Specific end use(s) Primer.

8. Exposure controls/Personal protection

Control parameters

Occupational exposure limits

HEPTANE

Long-term exposure limit (8-hour TWA): ACGIH 400 ppm 1640 mg/m³
Short-term exposure limit (15-minute): ACGIH 500 ppm 2050 mg/m³
Long-term exposure limit (8-hour TWA): OSHA 500 ppm 2000 mg/m³

ACGIH = American Conference of Governmental Industrial Hygienists.
OSHA = Occupational Safety and Health Administration.

Exposure controls

Protective equipment

Appropriate engineering controls Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection The following protection should be worn: Chemical splash goggles or face shield.

Hand protection It is recommended that chemical-resistant, impervious gloves are worn. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

Other skin and body protection Use engineering controls to reduce air contamination to permissible exposure level. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact. Provide eyewash station and safety shower. Uniforms, coveralls, or a lab coat should be worn

Hygiene measures Wash at the end of each work shift and before eating, smoking and using the toilet. Use of good industrial hygiene practices is required.

Permabond Polyolefin Primer (POP)

Respiratory protection	Provide adequate ventilation. Respiratory protection may be required if excessive airborne contamination occurs. Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved.

9. Physical and chemical properties

Information on basic physical and chemical properties

Color	Colorless.
Odor	Characteristic.
Odor threshold	Not available.
pH	Not relevant.
Melting point	Not available.
Initial boiling point and range	96.1-98.9°C/205-210°F
Flash point	-2°C/28.4°F
Evaporation rate	Not determined.
Upper/lower flammability or explosive limits	Upper flammable/explosive limit: 7 % Lower flammable/explosive limit: 1.1 %
Vapor density	Not available.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not determined.
Decomposition Temperature	Not available.
Explosive properties	Not determined.
Oxidizing properties	Not available.

10. Stability and reactivity

Reactivity	The following materials may react with the product: Strong oxidizing agents.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	There are no known reactivity hazards associated with this product.
Conditions to avoid	Avoid heat, flames and other sources of ignition.
Materials to avoid	Acids. Strong oxidizing agents.
Hazardous decomposition products	No data available.

11. Toxicological information

Information on toxicological effects

Toxicological effects	Information given is based on data of the components and of similar products. Avoid breathing vapours. Avoid contact with eyes and prolonged skin contact.

Skin corrosion/irritation

Skin corrosion/irritation	Irritating to skin.

Permabond Polyolefin Primer (POP)

Serious eye damage/irritation

Serious eye damage/irritation Slightly irritating.

Respiratory sensitization

Respiratory sensitization Based on available data the classification criteria are not met.

Skin sensitization

Skin sensitization Based on available data the classification criteria are not met.

Germ cell mutagenicity

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.

Carcinogenicity

Carcinogenicity No component of this product present at levels great than or equal to 0.1% is identified as a known carcinogen.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure May cause central nervous system disorder (e.g. narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage.

Target organs Central nervous system

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

Aspiration hazard Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

Inhalation Vapors have a narcotic effect. May cause respiratory system irritation.

Ingestion May be harmful if swallowed and enters airways.

Skin Contact Causes skin irritation.

Eye contact Irritating and may cause redness and pain.

Route of exposure Inhalation Ingestion Skin and/or eye contact

Toxicological information on ingredients.

HEPTANE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	2,001.0
Species	Rabbit

Permabond Polyolefin Primer (POP)

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	29.29
Species	Rat

Skin corrosion/irritation

Skin corrosion/irritation	Irritating to skin.

Serious eye damage/irritation

Serious eye damage/irritation	Not irritating.

Skin sensitization

Skin sensitization	Not sensitizing.

Carcinogenicity

Carcinogenicity	There is no evidence that the product can cause cancer.

Reproductive toxicity

Reproductive toxicity - fertility	One-generation study - NOAEL 31680 mg/m³, Inhalation, Rat

Specific target organ toxicity - single exposure

STOT - single exposure	May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	No information available.

Aspiration hazard

Aspiration hazard	May be fatal if swallowed and enters airways.

1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	300.0
Species	Rat

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	1,233.0
Species	Rabbit

Acute toxicity - inhalation

Notes (inhalation LC_{50})	No information available.

Skin corrosion/irritation

Skin corrosion/irritation	Corrosive to skin.

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye irritation. Rabbit Corrosive

Skin sensitization

Permabond Polyolefin Primer (POP)

Skin sensitization	No information available.
Germ cell mutagenicity	
Genotoxicity - in vitro	Gene mutation: Negative.
Carcinogenicity	
Carcinogenicity	No information available.
Reproductive toxicity	
Reproductive toxicity - fertility	Screening - NOAEL 150 mg/kg/day, Oral, Rat F1
Reproductive toxicity - development	Developmental toxicity: - NOAEL: 150 mg/kg/day, Oral, Rat
Specific target organ toxicity - single exposure	
STOT - single exposure	No information available.
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	No information available.
Aspiration hazard	
Aspiration hazard	No information available.

12. Ecological information

Ecotoxicity	Very toxic to aquatic life with long lasting effects.
Toxicity	No information available.
Persistence and degradability	
Persistence and degradability	The product is readily biodegradable.
Bioaccumulative potential	
Bio-Accumulative Potential	Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.
Partition coefficient	Not determined.
Mobility in soil	
Mobility	The product contains organic solvents which will evaporate easily from all surfaces.
Other adverse effects	
Other adverse effects	None known.

13. Disposal considerations

Waste treatment methods

General information	Dispose of according to Federal, State/Provincial and local regulations. Refer to section 8 before handling. Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.
Disposal methods	Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor. Containers should be thoroughly emptied before disposal because of the risk of an explosion.

14. Transport information

UN Number

Permabond Polyolefin Primer (POP)

UN No. (International) 1206

UN No. (DOT) UN1206

UN proper shipping name

Proper shipping name (IMDG) FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C7, n-Alkanes, isoalkanes,cyclics) (1,2-dichloroethylene)

Proper shipping name (ICAO) FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C7, n-Alkanes, isoalkanes,cyclics) (1,2-dichloroethylene)

Proper shipping name (DOT) FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C7, n-Alkanes, isoalkanes,cyclics) (1,2-dichloroethylene)

Transport hazard class(es)

Transport Labels (International) 3

DOT hazard class 3

Transport labels

Packing group

Packing group (International) II

DOT packing group II

Environmental hazards

Environmentally Hazardous Substance

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 above reporting limits

SARA (311/312) Hazard Categories

Acute
Chronic
Fire

Inventories

Permabond Polyolefin Primer (POP)

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
None above reporting limits

16. Other information

Classification abbreviations and acronyms	Flam. Liq. = Flammable liquid Eye Irrit. = Eye irritation Skin Irrit. = Skin irritation STOT SE = Specific target organ toxicity-single exposure Asp. Tox. = Aspiration hazard
Revision date	10/15/2020
Revision	2
Supersedes date	10/1/2018
Hazard statements in full	H225 Highly flammable liquid and vapor. H301 Toxic if swallowed. H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H336 May cause drowsiness or dizziness.