

Permabond Polyolefin Primer (POP)

Revision nr.2 Dated 10/11/2023 Printed on 10/11/2023 Page n. 1 / 11

Replaced revision:1 (Dated 10/2/2023)

Safety Data Sheet

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)

1. Identification

1.1. Product identifier

Product name Permabond Polyolefin Primer (POP)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use Surface activator

Identified Uses Industrial Professional Consumer
Use

1.3. Details of the supplier of the safety data sheet

Name Permabond Engineering Adhesives
Full address Niederkasseler Lohweg 18
District and Country 40547 Düsseldorf
Germany

Tel. +44 (0)1962 711 661 e-mail address of the competent person

responsible for the Safety Data Sheet info.europe@permabond.com

Supplier: Permabond LCC

14 Robinson Street Pottstown, PA 19464, USA tel 732-868-1372 OR 800-640-7599

www. permabond.com

1.4. Emergency telephone number

For urgent inquiries refer to Medical: Poison Control Center 866-827-6282 (toll free) or 303-389-1109
Transport: CHEMTREC 800-424-9300 (toll free) or 1-703-741-5970

2. Hazards identification

2.1. Classification of the substance or mixture

Classification and Hazard Statement
Flammable liquid, category 2
Aspiration hazard, category 1
Skin irritation, category 2
Specific target organ toxicity - single exposure

Specific target organ toxicity - single exposure, category 3

Hazard pictograms:

Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness.







Signal words:

Danger

Hazard statements:

H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements:

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing vapors or aerosols.





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2. Hazards identification .../>>

P242 Use only non-sparking tools.

P280 Wear protective gloves / eye protection / face protection.

P271 Use only outdoors or in a well-ventilated area.
P264 Carefully wash the contaminated skin after use.
P240 Ground / bond container and receiving equipment.
P243 Take precautionary measures against static discharge.

P241 Use explosion-proof electrical / ventilating / lighting / . . . / equipment.

Response:

P331 Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.

P301+P310 In case of ingestion: contact an anti -center or a doctor immediately.

P312 Call a POISON CENTER / doctor / . . . / if you feel unwell.
P332+P313 If skin irritation occurs: Get medical advice / attention.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P302+P352 In case of contact with the skin: wash abundantly with soap and water.

P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: use dry powder, dry sand or dry earth to extinct.

Storage:

P403+P235 Store in a well-ventilated place. Keep cool.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of the product according to current regulations.

2.2. Other hazards

No other hazards known.

3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification:

HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS

60 ≤ x < 100 Flammable liquid, category 2 H225, Aspiration hazard, category 1 H304,

Skin irritation, category 2 H315, Specific target organ toxicity - single

exposure, category 3 H336

EC 927-510-4 CAS 64742-49-0

REACH Reg. 01-2119475515-33-XXXX

TRANS-DICHLOROETHYLENE

INDEX 602-026-00-3 $5 \le x < 10$ Flammable liquid, category 2 H225, Acute toxicity, category 4 H332, Eye

irritation, category 2 H319, Specific target organ toxicity - single exposure,

category 3 H336

EC 205-860-2 CAS 156-60-5

REACH Reg. 01-2120093504-55-XXXX

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

 $0.1 \le x < 1$ Acute toxicity, category 3 H301, Skin corrosion, category 1B H314

EC 229-713-7 CAS 6674-22-2

REACH Reg. 01-2119977097-24-XXXX

The full wording of hazard (H) phrases is given in section 16 of the sheet.

4. First-aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

^{*} There is a batch to batch variation.



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4. First-aid measures .../>>

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

5. Fire-fighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous



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7. Handling and storage .../>>

stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

8. Exposure controls/personal protection

8.1. Control parameters

Information not available

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must comply with current regulations.

HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (OSHA 29 CFR 1910.138): compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing. EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a NIOSH certified filter, whose limit of use will be defined by the manufacturer (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus or external air-intake breathing apparatus. For a correct choice of respiratory protection device, see standard NIOSH 42 CFR 84, OSHA 29 CFR 1910.134.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties		Value	•			Information
Appearance		liquid				
Colour		colou	rless			
Odour	characteristic					
Odour threshold		not available				
pH		not available				
Melting point / freezing point		not available				
Initial boiling point	>	45	°C	(113 °F)	1	
Boiling range		not av	vailable			
Flash point	<	0	°C		(32 °F)	
Evaporation rate		not available				
Flammability		not available				
Lower inflammability limit		not available				
Upper inflammability limit		not available				
Lower explosive limit		not available				



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9. Physical and chemical properties

Upper explosive limit not available Vapour pressure not available Vapour density not available Relative density 0.7 Solubility not available Partition coefficient: n-octanol/water not available Auto-ignition temperature not available Decomposition temperature not available Viscosity not available Explosive properties not available Oxidising properties not available

9.2. Other information

Information not available

10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY



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11. Toxicological information .../>>

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

LD50 (Oral): 450 mg/kg LD50 (Dermal): > 1233 mg/kg

TRANS-DICHLOROETHYLENE

 LD50 (Oral):
 7902 mg/kg

 LD50 (Dermal):
 > 5000 mg/kg

 LC50 (Inhalation vapours):
 24100 ppm/4h

HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS LD50 (Oral): > 8 mg/kg LD50 (Dermal): 3000 mg/kg LC50 (Inhalation vapours): > 23.3 mg/l/4h

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Toxic for aspiration

12. Ecological information

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

12.1. Toxicity

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

LC50 - for Fish 146.6 mg/l/96h

EC50 - for Crustacea 50 mg/l/48h

TRANS-DICHLOROETHYLENE

LC50 - for Fish 135 mg/l/96h



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12. Ecological information .../>>

EC50 - for Crustacea

250 mg/l/48h

HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS

LC50 - for Fish > 13.4 mg/l/96h

EC50 - for Crustacea 3 mg/l/48h

EC50 - for Algae / Aquatic Plants 20 mg/l/72h

12.2. Persistence and degradability

TRANS-DICHLOROETHYLENE NOT rapidly degradable

HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS

Rapidly degradable

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Other adverse effects

Information not available

13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. Transport information

14.1. UN number

ADR / RID, IMDG, IATA: 1993

14.2. UN proper shipping name

ADR / RID: FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics F 1,2-DICHLOROETHYLENE)
IMDG: FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics F 1,2-DICHLOROETHYLENE)
IATA: FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics F 1,2-DICHLOROETHYLENE)

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14. Transport information .../>>

14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



14.4. Packing group

ADR / RID, IMDG, IATA:

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 33 Limited Quantities: 1 L Tunnel restriction code: (D/E)

Special provision: 274, 601, 640(C-D)

IMDG: EMS: F-E, S-E Limited Quantities: 1 L

IATA: Maximum quantity: 60 L Packaging instructions: 364 Cargo: Passengers: Maximum quantity: 5 L Packaging instructions: 353

Special provision:

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal Regulations

All components of this product are listed on US Toxic Substances Control Act (TSCA) Inventory or are exempt from the listing / notification requirements.

Clean Air Act Section 112(b):

No component(s) listed.

Clean Air Act Section 602 Class I Substances:

No component(s) listed.

Clean Air Act Section 602 Class II Substances:

No component(s) listed.

Clean Water Act – Priority Pollutants:

No component(s) listed.

Clean Water Act – Toxic Pollutants:

No component(s) listed.

DEA List I Chemicals (Precursor Chemicals):

No component(s) listed.

DEA List II Chemicals (Essential Chemicals):



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15. Regulatory information .../>>

No component(s) listed.

EPA List of Lists:

313 Category Code:

No component(s) listed.

EPCRA 302 EHS TPQ:

No component(s) listed.

EPCRA 304 EHS RQ:

No component(s) listed.

CERCLA RQ:

156-60-5 TRANS-DICHLOROETHYLENE

EPCRA 313 TRI:

No component(s) listed.

RCRA Code:

156-60-5 TRANS-DICHLOROETHYLENE

CAA 112 (r) RMP TQ: No component(s) listed.

State Regulations

Massachussetts:

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Minnesota:

No component(s) listed.

New Jersey:

No component(s) listed.

New York:

156-60-5 TRANS-DICHLOROETHYLENE

Pennsylvania:

156-60-5 TRANS-DICHLOROETHYLENE

California:

156-60-5 TRANS-DICHLOROETHYLENE

Proposition 65:

This product does not contain any substances know to the State of California to cause cancer, reproductive harm or birth defects.

International Regulations

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.
H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.



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16. Other information .../>>

H412

Harmful to aquatic life with long lasting effects.

I FGFND:

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAA 112 ® RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112®)
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: Regulation (EC) 1272/2008
- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REACH: Regulation (EC) 1907/2006
- REL: Recommended exposure limit
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TSCA: Toxic Substances Control Act
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

GENERAL BIBLIOGRAPHY:

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy
- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Comunication Standard (HCS 2012)
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act
- Massachussetts 105 CMR Department of public health 670.000: "Right to Know"
- Minensota Chapter 5206 Departemnt Of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.



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16. Other information .../>>

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Product classification derives from criteria established by the OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200), unless determined otherwise in Section 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review: The following sections were modified: 02 / 03 / 04 / 05 / 06 / 07 / 08 / 10 / 11 / 12 / 15 / 16.

