

SAFETY DATA SHEET Permabond Polyolefin Primer (POP)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Permabond Polyolefin Primer (POP)

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

Identified uses Primer.

1.3. Details of the supplier of the safety data sheet

Supplier Permabond Engineering Adhesives Ltd.

> Wessex Way Colden Common Winchester

Hampshire. SO21 1WP

United Kingdom

Tel: +44 (0)1962 711 661 Fax: +44 (0)1962 711 662 info.europe@permabond.com

1.4. Emergency telephone number

Emergency telephone UK +44 (0)1962 711 661 USA 0800 640 7599 Asia +86 (0)21 5773 4913

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 2 - H225

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

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

1999/45/EC)

Classification (67/548/EEC or Xn;R65. Xi;R38. F;R11. N;R50/53. R67.

Human health In high concentrations, vapours 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 vapours/air mixtures may be formed even at

normal room temperatures.

2.2. Label elements

Pictogram









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Signal word 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.

H410 Very toxic to aquatic life with long lasting effects.

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

smoking.

P261 Avoid breathing vapour/ spray.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P302+P352a IF ON SKIN: Wash with plenty of soap and water

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Contains HEPTANE

Supplementary precautionary statements

P243 Take precautionary measures against static discharge. P264 Wash contaminated skin thoroughly after handling.

P273 Avoid release to the environment.

P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves, eye and face protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with existing Community, National and

local regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

HEPTANE 60-100%

CAS number: 142-82-5 EC number: 205-563-8 M factor (Acute) = 1 M factor (Chronic) = 1

Classification Classification (67/548/EEC or 1999/45/EC)

Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 F;R11 Xn;R65 Xi;R38 R67 N;R50/53

SKIN Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move affected person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion Rinse mouth thoroughly with water. Drink a few glasses of water or milk. Do not induce

vomiting. Get medical attention.

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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. Promptly wash eyes with plenty of

water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention

if any discomfort continues.

4.2. 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.

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

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

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

SECTION 5: Firefighting measures

5.1. 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.

5.2. Special hazards arising from the substance or mixture

Specific hazards The product is flammable. Heating may generate flammable vapours. Vapours 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

Burning produces irritating, toxic and obnoxious fumes. Carbon monoxide, carbon dioxide,

and unknown hydrocarbons.

5.3. Advice for firefighters

Protective actions during

firefighting

Containers close to fire should be removed or cooled with water.

for firefighters

Special protective equipment Wear self contained breathing apparatus and protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Remove or isolate

all sources of ignition. Provide adequate ventilation.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

labelled containers for disposal.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

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7.1. 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 vapours will be emitted. Use in a well

ventilated area. Avoid contact with skin and eyes.

7.2. 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 sources of ignition - No smoking.

Storage class Flammable liquid storage.

7.3. Specific end use(s)

Specific end use(s) Primer.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

HEPTANE

Long-term exposure limit (8-hour TWA): WEL 500 ppm 2085 mg/m³

WEL = Workplace Exposure Limit

8.2. 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. Personal

eye protection should conform to EN 166

Hand protection Nitrile rubber or Viton™ gloves are recommended. Cotton or other absorbent gloves should

not be worn. Gloves should conform to EN 374. 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 vapour contact. Provide eyewash station and safety shower. Uniforms, coveralls, or a lab coat

should be worn

Hygiene measures Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Use of good industrial hygiene practices is required.

Respiratory protection Not normally required.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Colourless.

Odour Characteristic.

Odour threshold Not available.

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pH Not relevant.

Melting point Not available.

Initial boiling point and range 98°C

Flash point -4°C

Evaporation rate Not determined.

Upper/lower flammability or

explosive limits

Lower flammable/explosive limit: 1.1% Upper flammable/explosive limit: 7%

Vapour pressure ≈53.3 mbar @ 20°C

Vapour density Not available.

Relative density 0.7

Solubility(ies) Insoluble in water.

Partition coefficient Not determined.

Auto-ignition temperature 220°C

Decomposition Temperature Not available.

Viscosity ≈0.6 mPa s @ 23°C

Explosive properties Not determined.

Oxidising properties Not available.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The following materials may react with the product: Strong oxidising agents.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

There are no known reactivity hazards associated with this product.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

products vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects The toxicological properties of this product have not been fully evaluated. Do not ingest or

inhale. Avoid direct contact with skin or eyes.

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Aspiration hazard

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

chemical pneumonitis.

Inhalation In high concentrations, vapours may irritate throat and respiratory system and cause

coughing. Vapours have a narcotic effect.

Ingestion May be harmful if swallowed and enters airways.

Skin contact Repeated exposure may cause skin dryness or cracking. May cause sensitisation by skin

contact.

Eye contact Irritating and may cause redness and pain.

Toxicological information on ingredients.

HEPTANE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 5,000.0

mg/kg)

Species Rat

ATE oral (mg/kg) 5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,001.0

mg/kg)

Species Rabbit

ATE dermal (mg/kg) 2,001.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC50 vapours mg/l)

Species Rat

ATE inhalation (vapours 29.29

mg/l)

SECTION 12: Ecological Information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

29.29

12.1. Toxicity

Toxicity No information available.

Ecological information on ingredients.

HEPTANE

Acute aquatic toxicity

LE(C)₅₀ $0.1 < L(E)C50 \le 1$

M factor (Acute) 1

Acute toxicity - fish LL₅₀, 96 hours: 5.738 mg/l, Onchorhynchus mykiss (Rainbow trout)

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Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 1.5 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

NOELR, 72 hours: 0.97 mg/l, Pseudokirchneriella subcapitata

Chronic aquatic toxicity

M factor (Chronic) 1

Chronic toxicity - fish early NOELR, 28 days: 1.284 mg/l, Onchorhynchus mykiss (Rainbow trout)

life stage

Chronic toxicity - aquatic

invertebrates

NOELR, 21 days: 1 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability The product is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

Partition coefficient Not determined.

12.4. Mobility in soil

Mobility The product contains organic solvents which will evaporate easily from all surfaces.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste disposal should be in accordance with existing Community, National and local

regulations 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.

Waste class 14 06 03 other solvents and solvent mixtures

SECTION 14: Transport information

14.1. UN number

1206

14.2. UN proper shipping name

HEPTANES

14.3. Transport hazard class(es)

3

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Transport labels



14.4. Packing group

Ш

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS F-E, S-D

Hazard Identification Number 33

(ADR/RID)

Tunnel restriction code (D/E)

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009

No. 716).

EH40/2005 Workplace exposure limits.

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16

December 2008 on classification, labelling and packaging of substances and mixtures (as

amended)

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation,

Authorisation and Restriction of Chemicals (REACH)

Guidance Workplace Exposure Limits EH40.

Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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Risk phrases in full R11 Highly flammable.

R38 Irritating to skin.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R65 Harmful: may cause lung damage if swallowed. R67 Vapours may cause drowsiness and dizziness.

Hazard statements in full 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.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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.