

SAFETY DATA SHEET Permabond Cleaner A

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

1.1. Product identifier

Product name Permabond Cleaner A

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

Identified uses Cleaning agent.

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

Physical hazards Aerosol 1 - H222, H229

Health hazards Skin Irrit. 2 - H315 STOT SE 3 - H336

Environmental hazards Aquatic Chronic 2 - H411

Classification (67/548/EEC or Xi;R38. F+;R12. N;R51/53. R67.

1999/45/EC)

2.2. Label elements

Pictogram







Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

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

smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P280 Wear protective gloves, eye and face protection. P302+P352 IF ON SKIN: Wash with plenty of water.

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

Contains HYDROCARBONS, C7, n-ALKANES, ISOALKANES, CYCLICS

Supplementary precautionary

P235+P410 Keep cool. Protect from sunlight.

statements

P261 Avoid breathing vapour/spray.

P271 Use only outdoors or in a well-ventilated area.
P264 Wash contaminated skin thoroughly after handling.

P273 Avoid release to the environment.

P308+P313 IF exposed or concerned: Get medical advice/attention. P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

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

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P501 Dispose of contents/container in accordance with existing Community, National and

local regulations.

2.3. Other hazards

Contents under pressure. Avoid exposing aerosol containers to high temperatures or direct sunlight.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

HYDROCARBONS, C7, n-ALKANES, ISOALKANES,

30-60%

CYCLICS

CAS number: — EC number: 927-510-4

Classification

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

Flam. Liq. 2 - H225

Xn;R65. Xi;R38. F;R11. N;R51/53. R67.

Skin Irrit. 2 - H315 STOT SE 3 - H336

Asp. Tox. 1 - H304

Aquatic Chronic 2 - H411

trans-DICHLOROETHYLENE 1-5%

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

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

Flam. Liq. 2 - H225 F;R11 Xn;R20 R52/53

Acute Tox. 4 - H332 Aquatic Chronic 3 - H412

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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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 if any discomfort continues.

Skin contact 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 10 minutes. Get medical attention promptly if symptoms

occur after washing.

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

Inhalation Vapours may cause drowsiness and dizziness.

Skin contact Causes skin irritation.

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

Notes for the doctor Treat symptomatically. Move affected person to fresh air and keep warm and at rest in a

position comfortable for breathing.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up.

Oxides of carbon. Protection against nuisance dust must be used when the airborne

concentration exceeds 10 mg/m3.

5.3. Advice for firefighters

Protective actions during

firefighting

Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours. Avoid breathing fire gases or vapours.

Special protective equipment

for firefighters

Wear self contained breathing apparatus and protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Eliminate all sources of ignition. Warn everybody of potential hazards and evacuate if

necessary. 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

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

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

7.1. Precautions for safe handling

Usage precautions During application and drying, solvent vapours will be emitted. Use only in well-ventilated

areas. Keep away from heat, sparks and open flame.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. 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.

7.3. Specific end use(s)

Specific end use(s) Activator.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Protective equipment





Appropriate engineering

controls

Provide adequate ventilation. Avoid inhalation of vapours.

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

Uniforms, coveralls, or a lab coat should be worn

Hygiene measures Do not smoke in work area. 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 Respiratory protection must be used if the airborne contamination exceeds the recommended

occupational exposure limit.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colourless.

Odour Hydrocarbons.

pH Not applicable.

Melting point Not known.

Initial boiling point and range 45 -100°C

Flash point $\sim -4^{\circ}\text{C}$

Evaporation rate 4.3

Vapour pressure Not available.

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Vapour density Not available.

Relative density 0.7

Solubility(ies) Insoluble in water.

Auto-ignition temperature Not available.

Viscosity ≈0.7 mPa s @ 23°C

9.2. Other information

Other information Not relevant.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

There are no known conditions that are likely to result in a hazardous situation.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a

hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition

products

Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified

organic compounds.

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.

Acute toxicity - inhalation

Aspiration hazard

Aspiration hazard Not applicable.

Inhalation Gas or vapour in high concentrations may irritate the respiratory system. Vapours may cause

headache, fatigue, dizziness and nausea.

Skin contact Irritating to skin. Product has a defatting effect on skin. Repeated exposure may cause skin

dryness or cracking.

Eye contact Vapour or spray in the eyes may cause irritation and smarting.

Toxicological information on ingredients.

HYDROCARBONS, C7, n-ALKANES, ISOALKANES, CYCLICS

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

5,840.0

Species Rat

ATE oral (mg/kg) 5,840.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,800.0

mg/kg)

Species Rat

ATE dermal (mg/kg) 2,800.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC50 vapours mg/l)

23.3

23.3

Species Rat

ATE inhalation (vapours

mg/l)

trans-DICHLOROETHYLENE

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

2,000.1

Species Rat

ATE oral (mg/kg) 2,000.1

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 5,000.0

mg/kg)

Rabbit

Species Rabbit

ATE dermal (mg/kg) 5,000.0

Acute toxicity - inhalation

Acute toxicity inhalation

24,000.0

(LC₅₀ gases ppmV)

Species Rat

ATE inhalation (gases 4,500.0

ppm)

SECTION 12: Ecological Information

Ecotoxicity Toxic to aquatic life with long lasting effects. Avoid release to the environment.

12.1. Toxicity

Toxicity No data available.

Ecological information on ingredients.

HYDROCARBONS, C7, n-ALKANES, ISOALKANES, CYCLICS

Acute toxicity - fish LL₅₀, 96 hours: > 13.4 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

plants

NOELR, 72 hours: 6.3 mg/l, Pseudokirchneriella subcapitata

Acute toxicity -

microorganisms

NOELR, 48 hours: 5.999 mg/l, Tetrahymena pyriformis

Chronic toxicity - fish early NOELR, 28 days: 1.534 mg/l, Onchorhynchus mykiss (Rainbow trout)

life stage

Chronic toxicity - aquatic

invertebrates

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

trans-DICHLOROETHYLENE

Acute toxicity - aquatic

invertebrates

NOEC, 48 hours: 110 mg/l, Daphnia magna LC₅₀, 48 hours: 220 - 290 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

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

Disposal methods Empty containers must not be punctured or incinerated because of the risk of an explosion.

Waste class 16 05 04 gases in pressure containers (including halons) containing dangerous substances.

SECTION 14: Transport information

14.1. UN number

1950

14.2. UN proper shipping name

Proper shipping name

(ADR/RID)

AEROSOLS, FLAMMABLE

Proper shipping name

AEROSOLS

(IMDG)

Proper shipping name (ICAO) AEROSOLS, FLAMMABLE

Proper shipping name (ADN) AEROSOLS

14.3. Transport hazard class(es)

ADR/RID class 2
IMDG class 2
ICAO class/division 2.1

Transport labels



14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS F-D, S-U

Tunnel restriction code (D)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Not relevant.

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 Petroleum (Consolidation) Act, as amended 1984 SI 1244.

Highly Flammable Liquid Regulations 1972. Rivers (Prevention of Pollution) Act 1961.

Control of Pollution (Special Waste) Regulations 1980 (as amended).

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).

Guidance Workplace Exposure Limits EH40.

Introduction to Local Exhaust Ventilation HS(G)37.

CHIP for everyone HSG228.

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.

R12 Extremely flammable. R20 Harmful by inhalation. R38 Irritating to skin.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment

R52/53 Harmful 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 H222 Extremely flammable aerosol.

H225 Highly flammable liquid and vapour. H229 Pressurised container: may burst if heated

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation. H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful 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.