

SAFETY DATA SHEET Permabond Initiator 43

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

1.1. Product identifier

Product name Permabond Initiator 43

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

Identified uses Activator.

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 Not Classified Health hazards Not Classified

Environmental hazards Aquatic Chronic 3 - H412

Classification (67/548/EEC or Xi;R36/37/38. R52/53.

1999/45/EC)

2.2. Label elements

Hazard statements H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P273 Avoid release to the environment.

Supplementary precautionary

P280 Wear protective clothing, gloves, eye and face protection.

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

local regulations.

2.3. Other hazards

None under normal conditions.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

HYDROCARBONS, C10-C13, n-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

1-5%

CAS number: — EC number: 918-481-9

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

Asp. Tox. 1 - H304 Xn;R65. R66.

2-ETHYLHEXANOIC ACID, COPPER SALT

1-5%

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

Acute Tox. 4 - H302 Xn;R22. N;R50/53.

Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

FATTY ACIDS, C6-C19-BRANCHED, COPPER(2+) SALTS

1-5%

CAS number: 68308-19-0 EC number: 269-634-5

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

Acute Tox. 4 - H302 Xn;R22. N;R50/53. R10.

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

Inhalation Move the exposed person to fresh air. Get medical attention if any discomfort continues.

Ingestion Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Get

medical attention.

Skin contact Remove contaminated clothing. Wash skin thoroughly with soap and water. If symptoms

develop, obtain medical attention

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

Inhalation May cause discomfort.

Eye contact Splashes in the eyes may cause redness and irritation.

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

Notes for the doctor No specific recommendations. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Foam, carbon dioxide or dry powder.

Unsuitable extinguishing

Do not use water jet as an extinguisher, as this will spread the fire.

media

5.2. Special hazards arising from the substance or mixture

Hazardous combustion

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

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

products

and unknown hydrocarbons. Oxides of nitrogen.

5.3. Advice for firefighters

Special protective equipment

for firefighters clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes. Avoid inhalation of vapours. Wear protective clothing as described in Personal precautions

Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Absorb spillage with sand or other inert absorbent. Transfer to suitable, labelled containers for Methods for cleaning up

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

Ensure adequate ventilation of the working area. Avoid contact with skin and eyes. Do not eat, Usage precautions

drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in closed original container at temperatures between 5°C and 25°C. Never return

unused material to storage receptacle.

7.3. Specific end use(s)

Usage description Adhesive.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Protective equipment







Appropriate engineering controls

Provide adequate 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

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

> 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.

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Other skin and body

protection

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.

When using do not eat, drink or smoke. Use of good industrial hygiene practices is required.

Respiratory protection No specific recommendations. Respiratory protection may be required if excessive airborne

contamination occurs.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Green.

Odour Acrylic

Odour thresholdNot available.pHNot relevant.Melting pointNot available.Initial boiling point and rangeNot applicable.

Flash point >90°C

Evaporation rate Not available.

Upper/lower flammability or

explosive limits

Not available.

Vapour pressure Not available.

Vapour density Not available.

Relative density 1.0

Solubility(ies) Insoluble in water. Soluble in the following materials: Organic solvents.

Auto-ignition temperature Not available.

Decomposition Temperature Not available.

Viscosity ≈10 mPa s @ 23°C

Oxidising properties Not available.

9.2. Other information

Other information Not relevant.

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.

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 Stable at normal ambient temperatures and when used as recommended.

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

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. Avoid direct contact

with skin or eyes. Do not ingest or inhale.

Aspiration hazard

products

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

Inhalation Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at

ambient temperature.

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

Toxicological information on ingredients.

HYDROCARBONS, C10-C13, n-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

5,000.0

Species Rat

ATE oral (mg/kg) 5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 3,160.0

mg/kg)

Species Rabbit

ATE dermal (mg/kg) 3,160.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC₅₀ vapours mg/l)

4.95

Species Rat

Reproductive toxicity

Reproductive toxicity -

- NOAEC >= 400 ppm, Inhalation, Rat P

fertility

Reproductive toxicity -

development

Developmental toxicity: - NOAEC: >= 300 ppm, Inhalation, Rat

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SECTION 12: Ecological Information

Ecotoxicity Harmful to aquatic life with long lasting effects.

12.1. Toxicity

Toxicity No data available.

Ecological information on ingredients.

HYDROCARBONS, C10-C13, n-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

Acute toxicity - fish LL₅₀, 96 hours: > 1000 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

NOELR, 96 hours: 32 mg/l, Chaetogammarus marinus

Acute toxicity - aquatic

plants

NOELR, 72 hours: 1000 mg/l, Pseudokirchneriella subcapitata

Chronic toxicity - fish early NOELR, 28 days: 0.101 mg/l, Onchorhynchus mykiss (Rainbow trout)

life stage

Chronic toxicity - aquatic

invertebrates

NOELR, 21 days: 0.176 mg/l, Daphnia magna

2-ETHYLHEXANOIC ACID, COPPER SALT

Acute aquatic toxicity

LE(C)₅₀ $0.1 < L(E)C50 \le 1$

M factor (Acute) 1

Chronic aquatic toxicity

M factor (Chronic) 1

12.2. Persistence and degradability

Persistence and degradability No data available.

Ecological information on ingredients.

HYDROCARBONS, C10-C13, n-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

Biodegradation Water - 80%: 28 days

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

assessment

Mobility No data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

IG VI VD

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

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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 methodsDo not empty into drains, dispose of this material and its container at hazardous or special

waste collection point.

Waste class 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous

substances.

SECTION 14: Transport information

General The product is not classified as dangerous for carriage.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No

14.6. Special precautions for user

Not applicable.

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).

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.

CHIP for everyone HSG228.

Approved Classification and Labelling Guide (Sixth edition) L131.

Safety Data Sheets for Substances and Preparations.

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 R10 Flammable.

R22 Harmful if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

R50/53 Very 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.

R66 Repeated exposure may cause skin dryness or cracking.

Hazard statements in full H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H400 Very toxic to aquatic life.

H410 Very 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.