



SAFETY DATA SHEET Permabond 3D10

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

1.1. Product identifier

Product name Permabond 3D10

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

Identified uses Adhesive.

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 Not Classified

2.2. Label elements

Hazard statements NC Not Classified

Precautionary statements EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of

children.

2.3. Other hazards

None under normal conditions.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Composition commentsNone of the ingredients are required to be listed.

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.

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Ingestion On contact, immediate bonding of mouth could occur. Do not induce vomiting. Get medical

attention.

Skin contact On contact, immediate bonding of the skin will occur. No attempt should be made to remove

material from skin or to remove contaminated clothing, as the bonded skin can be easily torn.

Wash skin thoroughly with soap and water.

Eye contact Immediately flush with plenty of water or eyewash solution for up to 10 minutes. If adhesive

bonds eyelids, flush with water and seek medical assistance. Do not attempt to force bonded skin apart. Cured adhesive will not bond well to surface of eye, but corneal damage from

abrasion may result.

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

Inhalation Irritation of nose, throat and airway.

Ingestion On contact, immediate bonding of mouth could occur.

Skin contact Prolonged skin contact may cause redness and irritation.

Eve contact Irritating and may cause redness and pain.

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

Notes for the doctor SKIN BONDING. Prise the skin apart slowly working from the edge of the bonded area. This

can be eased by using warm soapy water. EYE BONDING. DO NOT force eyelids apart.

Apply a pad soaked in warm water and allow the eye to separate itself.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Specific hazards Cloths used to wipe up spills may cause rapid polymerization that could generate sufficient

heat to ignite the cloth.

Hazardous combustion

products

Decomposes upon heating to release toxic fumes of nitrogen oxides, carbon monoxide,

carbon dioxide, and hydrogen cyanide.

5.3. Advice for firefighters

Protective actions during

firefighting

Avoid breathing fire gases or vapours.

Special protective equipment

Use air-supplied respirator, gloves and protective goggles.

for firefighters

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions For personal protection, see Section 8. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Small spills: wipe up with cloth. Immediately soak cloth with water to polymerize the adhesive.

Caution! Cloth containing adhesive may undergo autoignition if not soaked with water Large

spills: flood area with water. When cured, remove film with a scraper.

6.4. Reference to other sections

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Reference to other sections Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Ensure adequate ventilation of the working area. Avoid contact with skin and eyes. Always

replace cap after use.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry and cool place. Keep containers upright.

7.3. Specific end use(s)

Specific end use(s) Adhesive.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Ingredient comments No exposure limits known for ingredient(s).

8.2. Exposure controls

Protective equipment





Appropriate engineering

controls

Normal (mechanical) room ventilation should be adequate for small volumes. For higher volume activities, or if needed for worker comfort, local mechanical exhaust should be

provided

Eye/face protectionUse approved safety 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 When using do not eat, drink or smoke. Wash hands at the end of each work shift and before

eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use of good industrial hygiene practices is

required.

Respiratory protectionNo specific recommendations. 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.

Colour Colourless.

Odour Pungent.

pH Not applicable.

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Melting point Not applicable.

Initial boiling point and range >100°C
Flash point >80°C

Evaporation rate Not available.

Vapour pressure ~0.3 mbar @ 25°C

Vapour density Not applicable.

Relative density 1.1

Bulk density Not applicable.

Solubility(ies) Hardens in contact with water. Insoluble in water. Miscible with the following materials:

Organic solvents.

Partition coefficient Not applicable.

Auto-ignition temperature Not available.

Decomposition Temperature Not available.

Viscosity ≈15 mPa s @ 23°C

Oxidising properties Not applicable.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The product reacts with water and will generate heat.

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

Reactions with the following materials may generate heat: Water Alcohols. Alkalis. Amines.

10.4. Conditions to avoid

Conditions to avoid Do not add water directly to the product. It may cause a violent reaction.

10.5. Incompatible materials

Materials to avoid Water. Amines. Alkalis. Alcohols.

10.6. Hazardous decomposition products

Hazardous decomposition products

Heating may generate the following products: Toxic gases/vapours/fumes of: Carbon dioxide

(CO2). Carbon monoxide (CO). Nitrous gases (NOx). Hydrogen cyanide (HCN).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Under EU legislation the cyanoacrylates do not require classification as sensitisers and the

rapid polymerisation caused on contact with moisture makes this unlikely. However the American Conference of Governmental Industrial Hygienists (ACGIH) has reported some limited evidence of skin and respiratory sensitisation. May cause allergic reactions in

susceptible people.

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Inhalation Considered to be a low inhalation hazard at normal workplace temperatures. May cause

discomfort.

Ingestion On contact, immediate bonding of mouth could occur.

Skin contact On contact, immediate bonding of the skin will occur. Prolonged skin contact may cause

temporary irritation.

Eye contact Prolonged and frequent contact may cause redness and irritation. On contact, will bond

eyelids together. Vapours are lachrymatory.

SECTION 12: Ecological Information

Ecotoxicity No negative effects on the aquatic environment are known.

12.1. Toxicity

Toxicity No information available.

Acute toxicity - aquatic

invertebrates

Not available.

Acute toxicity - aquatic plants Not available.

Acute toxicity - terrestrial Not available.

12.2. Persistence and degradability

Persistence and degradability No data available.

Biological oxygen demand Not known.

Chemical oxygen demand Not known.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not applicable.

12.4. Mobility in soil

Mobility The product hardens to a solid, immobile substance.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

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

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.

Do 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.

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SECTION 14: Transport information

Not classified. Road transport notes Rail transport notes Not classified. Not classified.

Air transport notes Applies only to inner containers > 500ml.

14.1. UN number

Sea transport notes

UN No. (ADR/RID) Not applicable UN No. (IMDG) Not applicable

UN No. (ICAO) 3334

UN No. (ADN) Not applicable

14.2. UN proper shipping name

Proper shipping name Not applicable

(ADR/RID)

Proper shipping name (IMDG) Not applicable

Proper shipping name (ICAO) AVIATION REGULATED LIQUID, N.O.S. (contains 2-methoxyethyl 2-cyanoacrylate)

Proper shipping name (ADN) Not applicable

14.3. Transport hazard class(es)

ICAO class/division 9

Transport labels



14.4. Packing group

ICAO packing group Ш

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

None under normal conditions.

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

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National regulations Health and Safety at Work etc. Act 1974 (as amended).

The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as

amended).

Rivers (Prevention of Pollution) Act 1961.

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

Control of Pollution Act 1974.

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

No. 716).

Control of Substances Hazardous to Health Regulations 2002 (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).

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.

Introduction to Local Exhaust Ventilation HS(G)37.

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

Revision date 25/03/2016

Revision 1

Risk phrases in full Not classified.

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.