

# Permabond®

Engineering Adhesives

## SAFETY DATA SHEET Permabond CSA-NF

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name Permabond CSA-NF

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

Identified uses Primer. 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

UK +44 (0)1962 711 661 USA 0800 640 7599 Italia +39 0362 529 302

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Not classified.

#### 2.2. Label elements

##### Risk Phrases

NC Not classified.

##### Safety Phrases

P13 Safety data sheet available for professional user on request.

#### 2.3. Other hazards

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

1,1,1,2,3,4,4,5,5,5-DECAFLUOROPENTANE	10-30%
CAS-No.: 138495-42-8	EC No.: 420-640-8
Classification (EC 1272/2008) Aquatic Chronic 3 - H412	Classification (67/548/EEC) R52/53.
N,N-DIMETHYL-PARA-TOLUIDINE	0.1-1%
CAS-No.: 99-97-8	EC No.: 202-805-4

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Classification (EC 1272/2008)  
Acute Tox. 3 - H301  
Acute Tox. 3 - H311  
Acute Tox. 3 - H331  
STOT RE 2 - H373  
Aquatic Chronic 3 - H412

Classification (67/548/EEC)  
T;R23/24/25  
R33  
R52/53

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**

Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. Never give liquid to an unconscious person. Get medical attention.

##### **Skin contact**

Wash skin thoroughly with soap and water. Remove contaminated clothing. If symptoms develop, obtain medical attention

##### **Eye contact**

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention if any discomfort continues.

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

##### **Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

##### **Eye contact**

May cause temporary eye irritation.

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

No specific first aid measures noted. Treat Symptomatically.

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

##### **Extinguishing media**

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

##### **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

##### **Hazardous combustion products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrogen fluoride (HF).

#### 5.3. Advice for firefighters

##### **Protective equipment for fire-fighters**

Wear self contained breathing apparatus and protective clothing.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

#### 6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

#### 6.3. Methods and material for containment and cleaning up

Absorb with sand or other inert absorbent. Transfer to a container for disposal.

#### 6.4. 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

Avoid contact with skin and eyes. Do not eat, drink or smoke when using the product.

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## 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Protect against direct sunlight.

## 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Ingredient Comments

No exposure limits noted for ingredient(s).

### 8.2. Exposure controls

#### Protective equipment



#### Engineering measures

Provide adequate general and local exhaust ventilation.

#### Respiratory equipment

Not normally required.

#### Hand protection

Nitrile rubber or Viton™ gloves are recommended. Cotton or other absorbent gloves should not be worn. Gloves should conform to EN 374.

#### Eye protection

If risk of splashing, wear safety goggles or face shield. Personal eye protection should conform to EN 166

#### Other 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. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Liquid
<b>Colour</b>	Colourless.
<b>Odour</b>	Mild. Characteristic.
<b>Solubility</b>	Insoluble in water
<b>Initial boiling point and boiling range</b>	42°C
<b>Melting point (°C)</b>	Not determined.
<b>Relative density</b>	1.28
<b>Vapour density (air=1)</b>	Not available.
<b>Vapour pressure</b>	43 kPa
<b>Evaporation rate</b>	Not determined.
<b>pH-Value, Conc. Solution</b>	Not determined.
<b>Viscosity</b>	1 mPa.s
<b>Decomposition temperature (°C)</b>	Not determined.
<b>Odour Threshold, Lower</b>	Not available.
<b>Flash point</b>	Not applicable.

This product is not flammable.

**Auto Ignition Temperature (°C)**

Not available.

**Partition Coefficient  
(N-Octanol/Water)**

Not determined.

**Explosive properties**

Not applicable.

**Oxidising properties**

Not applicable.

**9.2. Other information**

Not relevant

**SECTION 10: STABILITY AND REACTIVITY**

**10.1. Reactivity**

No specific reactivity hazards associated with this product.

**10.2. Chemical stability**

Stable under normal temperature conditions and recommended use.

**10.3. Possibility of hazardous reactions**

Exothermic reaction with: Powdered metal.

**10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

**10.5. Incompatible materials**

**Materials To Avoid**

Powdered metal.

**10.6. Hazardous decomposition products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrogen fluoride (HF).

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

**Toxicological information**

The toxicological properties of this product have not been fully evaluated. Use of good industrial hygiene practices is required. Avoid direct contact with skin or eyes. Do not ingest or inhale.

**Aspiration hazard:**

Based on available data the classification criteria are not met.

**Inhalation**

In high concentrations, vapours may irritate throat and respiratory system and cause coughing. Vapours may cause drowsiness and dizziness.

**Ingestion**

No harmful effects expected in amounts likely to be ingested by accident.

**Skin contact**

Repeated exposure may cause skin dryness or cracking.

**Eye contact**

May cause temporary eye irritation.

**SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity**

The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

**12.1. Toxicity**

No data available.

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential**

No data available on bioaccumulation.

**Partition coefficient**

Not determined.

**12.4. Mobility in soil**

**Mobility:**

The product is insoluble in water. The product contains volatile substances, which may spread in the atmosphere.

**Henry's Law Constant**

~ 3800 Pa m<sup>3</sup>/mol

**12.5. Results of PBT and vPvB assessment**

This product does not contain any PBT or vPvB substances.

**12.6. Other adverse effects**

None known.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**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.

**13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements.

**Waste Class**

14 06 03 other solvents and solvent mixtures

**SECTION 14: TRANSPORT INFORMATION**

**General**

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

**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 relevant

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

Not relevant

**SECTION 15: REGULATORY INFORMATION**

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

#### **Statutory Instruments**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I. 2009 No. 716).

#### **Approved Code Of Practice**

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

#### **Guidance Notes**

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

#### **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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

**Revision Date** 13/06/2012

**Revision** 1

#### **Risk Phrases In Full**

R33 Danger of cumulative effects.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

NC Not classified.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

#### **Hazard Statements In Full**

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H373 May cause damage to organs <<Organs>> through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.