Supersedes date 06/06/2014



# SAFETY DATA SHEET Permabond TA4200A

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

## 1.1. Product identifier

Product name Permabond TA4200A

## 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

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 and Chemical Hazards Flam. Liq. 2 - H225

Human health Skin Corr. 1B - H314; Skin Sens. 1 - H317; STOT SE 3 - H335

Environment Aquatic Chronic 3 - H412

Classification (1999/45/EEC) C;R34. Xi;R37. R43. F;R11. R52/53.

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

## 2.2. Label elements

Contains CUMENE HYDROPEROXIDE

EPOXY RESIN (Number average MW <= 700)

METHACRYLIC ACID
METHYL METHACRYLATE

Label In Accordance With (EC) No. 1272/2008



Signal Word Danger

**Hazard Statements** 

H225 Highly flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H335 May cause respiratory irritation.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

**Supplementary Precautionary Statements** 

P310

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.
P260 Do not breathe vapour/spray.
P261 Avoid breathing vapour/spray.

P264 Wash contaminated skin thoroughly after handling.
P321 Specific treatment (see medical advice on this label).

P370+378 In case of fire: Use foam, carbon dioxide, dry powder or water fog for

extinction.

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302+352 IF ON SKIN: Wash with plenty of soap and water.

P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower.

P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P333+313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P403+233 Store in a well-ventilated place. Keep container tightly closed.

P403+235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container to ...

Supplemental label information

EUH205 Contains epoxy constituents. May produce an allergic reaction.

# 2.3. Other hazards

None under normal conditions.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2. Mixtures

CUMENE HYDROPEROXIDE 1-5%

CAS-No.: 80-15-9 EC No.: 201-254-7

 Classification (EC 1272/2008)
 Classification (67/548/EEC)

 Org. Perox. E - H242
 O;R7

 Acute Tox. 4 - H302
 T;R23

 Acute Tox. 4 - H312
 C;R34

 Acute Tox. 3 - H331
 Xn;R21/22,R48/20/22

 Skin Corr. 1B - H314
 N;R51/53

 STOT SE 3 - H335
 STOT RE 2 - H373

 Aquatic Chronic 2 - H411
 Aquatic Chronic 2 - H411

EPOXY RESIN (Number average MW <= 700 ) 5-10%

CAS-No.: 25068-38-6 EC No.: 500-033-5

Classification (EC 1272/2008) Classification (67/548/EEC)

 Skin Irrit. 2 - H315
 R43

 Eye Irrit. 2 - H319
 Xi;R36/38

 Skin Sens. 1 - H317
 N;R51/53

 Aquatic Chronic 2 - H411
 N;R51/53

METHACRYLIC ACID 5-10%

CAS-No.: 79-41-4 EC No.: 201-204-4

Classification (EC 1272/2008) Classification (67/548/EEC)

Acute Tox. 4 - H302 C;R35
Acute Tox. 4 - H312 Xn;R21/22

Skin Corr. 1A - H314 STOT SE 3 - H335

METHYL METHACRYLATE 30-60%

CAS-No.: 80-62-6 EC No.: 201-297-1

Classification (EC 1272/2008) Classification (67/548/EEC)

 Flam. Liq. 2 - H225
 F;R11

 Skin Irrit. 2 - H315
 R43

 Skin Sens. 1 - H317
 Xi;R37/38

STOT SE 3 - H335

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.

#### Ingestior

Rinse mouth thoroughly. Drink plenty of water. Do not induce vomiting. Get medical attention if any discomfort continues.

# Skin contact

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

# Eye contact

Make sure to remove any contact lenses from the eyes before rinsing. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Get medical attention if any discomfort continues.

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

#### Skin contact

Skin irritation. Mild dermatitis, allergic skin rash.

#### Eye contact

Irritating and may cause redness and pain.

## 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

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

#### Specific hazards

Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.

#### 5.3. Advice for firefighters

#### Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Eliminate all sources of ignition. Ensure adequate ventilation of the working area. Do not breathe vapour. Wear protective clothing as described in Section 8 of this safety data sheet.

#### 6.2. Environmental precautions

Do not allow to enter drains, sewers or watercourses.

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

Absorb with sand or other inert absorbent. Transfer to suitable, labelled containers 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. Use in a well ventilated area. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

# 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Store below 25°C.

## 7.3. Specific end use(s)

Adhesive.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
METHACRYLIC ACID	WEL	20 ppm	72 mg/m3	40 ppm	143 mg/m3	
METHYL METHACRYLATE	WEL	50 ppm	208 mg/m3	100 ppm	416 mg/m3	

WEL = Workplace Exposure Limit.

## 8.2. Exposure controls

#### Protective equipment







#### **Engineering measures**

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

#### Respiratory equipment

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

#### Hand protection

Wear protective gloves. 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

Employee must wear appropriate protective clothing and equipment to prevent any possibility of skin contact with this substance.

## Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1. Information on basic physical and chemical properties

Appearance Liquid Colour Cream.

Odour Pungent. Acrylic

**Solubility** Slightly soluble in water. Soluble in: Organic solvents.

Initial boiling point and boiling range (°C)

Not applicable.

Melting point (°C)

Not available.

Relative density 1.05
Vapour density (air=1) ~3.46
Vapour pressure ~28 mm Hg

Evaporation rate

Not available.

pH-Value, Conc. Solution

Not relevant

Viscosity ~45000 mPa.s Thixotropic

Odour Threshold, Lower

Not available.

Flash point (°C) 11°C

Auto Ignition Temperature (°C)

Not available.

Flammability Limit - Lower(%)

Not available.

Flammability Limit - Upper(%)

Not available.

Oxidising properties

Not available.

## 9.2. Other information

Not relevant

## **SECTION 10: STABILITY AND REACTIVITY**

# 10.1. Reactivity

Reaction with: Strong oxidising agents. Strong acids. Strong alkalis.

## 10.2. Chemical stability

Stable under normal temperature conditions.

## 10.3. Possibility of hazardous reactions

No specific reactivity hazards associated with this product.

#### **Hazardous Polymerisation**

Exothermic reaction with: Amines. Organic peroxides/hydroperoxides.

## 10.4. Conditions to avoid

Take precautionary measures against static discharges. Avoid heat, flames and other sources of ignition.

## 10.5. Incompatible materials

#### Materials To Avoid

Strong oxidising substances. Strong acids. Strong alkalis.

## 10.6. 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 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.

## Respiratory or skin sensitisation:

May cause sensitisation by skin contact.

#### Aspiration hazard:

None under normal conditions.

#### Inhalation

May cause irritation to the respiratory system.

# Skin contact

Causes burns.

## Eye contact

May cause severe irritation to eyes.

## **SECTION 12: ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

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

## 12.1. Toxicity

No data available.

## 12.2. Persistence and degradability

#### Degradability

The product is not readily biodegradable.

## 12.3. Bioaccumulative potential

## Bioaccumulative potential

No data available on bioaccumulation.

## 12.4. Mobility in soil

## Mobility:

No data available. The product has poor water-solubility.

## 12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

## 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**

08 04 09\* waste adhesives and sealants containing organic solvents or other dangerous substances

## **SECTION 14: TRANSPORT INFORMATION**

# 14.1. UN number

2924

UN No. (ADR/RID/ADN) UN2924

## 14.2. UN proper shipping name

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (contains Methylmethacrylate and Methacrylic Acid)

## 14.3. Transport hazard class(es)

3

## **Transport Labels**



# 14.4. Packing group

Ш

## 14.5. Environmental hazards

#### **Environmentally Hazardous Substance/Marine Pollutant**

No.

## 14.6. Special precautions for user

EMS F-E, S-C

**Hazard No. (ADR)** 338 Highly flammable liquid, corrosive.

Tunnel Restriction Code (C/E)

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

Not applicable.

#### **SECTION 15: REGULATORY INFORMATION**

## 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

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

#### **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 05/08/2014

Revision 2

Supersedes date 06/06/2014

Risk Phrases In Full

R34 Causes burns.
R35 Causes severe burns.

R21/22 Harmful in contact with skin and if swallowed.

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

R48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R11 Highly flammable

R36/38 Irritating to eyes and skin.

R37/38 Irritating to respiratory system and skin.

R37 Irritating to respiratory system.

R7 May cause fire.

R43 May cause sensitisation by skin contact.

R23 Toxic by inhalation.

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

#### Hazard Statements In Full H225 Highly flammable liquid and vapour. H242 Heating may cause a fire. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H331 Toxic if inhaled. H335 May cause respiratory irritation. H373 May cause damage to organs << Organs>> through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.

Harmful to aquatic life with long lasting effects.

H412



# SAFETY DATA SHEET Permabond TA4200B

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

## 1.1. Product identifier

Product name Permabond TA4200B

## 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

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 and Chemical Hazards Flam. Liq. 2 - H225

Human health Skin Irrit. 2 - H315;Eye Irrit. 2 - H319;Skin Sens. 1 - H317;STOT SE 3 - H335

Environment Not classified.

**Classification (1999/45/EEC)** Xi;R36/37/38. R43. F;R11.

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

## 2.2. Label elements

Contains 2-HYDROXYETHYL METHACRYLATE

METHYL METHACRYLATE

Label In Accordance With (EC) No. 1272/2008



Signal Word Danger

**Hazard Statements** 

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

**Precautionary Statements** 

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P313 Get medical advice/attention.

**Supplementary Precautionary Statements** 

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P272 Contaminated work clothing should not be allowed out of the workplace.

P261 Avoid breathing vapour/spray.

P264 Wash contaminated skin thoroughly after handling.
P321 Specific treatment (see medical advice on this label).

P370+378 In case of fire: Use foam, carbon dioxide, dry powder or water fog for

extinction.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower.

P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P332+313 If skin irritation occurs: Get medical advice/attention.
P333+313 If skin irritation or rash occurs: Get medical advice/attention.

P337 If eye irritation persists:

P362 Take off contaminated clothing and wash before reuse.

P363 Wash contaminated clothing before reuse.

P403+233 Store in a well-ventilated place. Keep container tightly closed.

P403+235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container to ...

# 2.3. Other hazards

None under normal conditions.

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

## 3.2. Mixtures

2-HYDROXYETHYL METHACRYLATE 10-30%

CAS-No.: 868-77-9 EC No.: 212-782-2

Classification (EC 1272/2008) Classification (67/548/EEC)

 Skin Irrit. 2 - H315
 R43

 Eye Irrit. 2 - H319
 Xi;R36/38

Skin Sens. 1 - H317

3,5-DIETHYL-1,2-DIHYDRO-1-PHENYL-2-PROPYLPYRIDINE

1-5%

CAS-No.: 34562-31-7 EC No.: 252-091-3

 Classification (EC 1272/2008)
 Classification (67/548/EEC)

 Acute Tox. 4 - H302
 Xn;R21/22.

 Acute Tox. 4 - H312
 Xi;R36/38.

Acute Tox. 4 - H312 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319

METHYL METHACRYLATE 60-100%

CAS-No.: 80-62-6 EC No.: 201-297-1

Classification (EC 1272/2008) Classification (67/548/EEC)

Flam. Liq. 2 - H225 F;R11
Skin Irrit. 2 - H315 R43
Skin Sens. 1 - H317 Xi;R37/38
STOT SE 3 - H335

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. Drink plenty of water. Do not induce vomiting. Get medical attention if any discomfort continues.

#### Skin contact

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

#### Eye contact

Make sure to remove any contact lenses from the eyes before rinsing. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Get medical attention if any discomfort continues.

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

## Skin contact

Skin irritation. Mild dermatitis, allergic skin rash.

## Eye contact

Irritating and may cause redness and pain.

# 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

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

#### Specific hazards

Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.

## 5.3. Advice for firefighters

## Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Eliminate all sources of ignition. Ensure adequate ventilation of the working area. Do not breathe vapour. Wear protective clothing as described in Section 8 of this safety data sheet.

#### 6.2. Environmental precautions

Do not allow to enter drains, sewers or watercourses.

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

Absorb with sand or other inert absorbent. Transfer to suitable, labelled containers 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. Use in a well ventilated area. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

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

Store in tightly closed original container in a dry, cool and well-ventilated place. Store below 25°C.

## 7.3. Specific end use(s)

Adhesive.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

# 8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
METHYL METHACRYLATE	WEL	50 ppm	208 mg/m3	100 ppm	416 mg/m3	

WEL = Workplace Exposure Limit.

## 8.2. Exposure controls

## Protective equipment







#### **Engineering measures**

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

#### Respiratory equipment

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

#### Hand protection

Wear protective gloves. 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

Employee must wear appropriate protective clothing and equipment to prevent any possibility of skin contact with this substance.

#### Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1. Information on basic physical and chemical properties

Appearance Viscous liquid.

Colour Cream.

Odour Pungent. Acrylic

Solubility Slightly soluble in water. Soluble in: Organic solvents.

~100°C

Initial boiling point and boiling range

(°C)

Melting point (°C)
Not available.

Relative density 0.99
Vapour density (air=1) 3.46
Vapour pressure 28 mm Hg

Evaporation rate

Not available.

pH-Value, Conc. Solution

Not relevant

Viscosity ~45000 mPa.s Thixotropic

Odour Threshold, Lower

Not available.

Flash point (°C) 11°C

Auto Ignition Temperature (°C)

Not available.

Flammability Limit - Lower(%)

Not available.

Flammability Limit - Upper(%)

Not available.

Oxidising properties

Not available.

## 9.2. Other information

Not relevant

# **SECTION 10: STABILITY AND REACTIVITY**

## 10.1. Reactivity

Reaction with: Strong oxidising agents. Strong acids. Strong alkalis.

## 10.2. Chemical stability

Stable under normal temperature conditions.

## 10.3. Possibility of hazardous reactions

No specific reactivity hazards associated with this product.

**Hazardous Polymerisation** 

Exothermic reaction with: Amines. Organic peroxides/hydroperoxides.

# 10.4. Conditions to avoid

Take precautionary measures against static discharges. Avoid heat, flames and other sources of ignition.

# 10.5. Incompatible materials

#### **Materials To Avoid**

Strong oxidising substances. Strong acids. Strong alkalis.

## 10.6. 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 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.

#### Respiratory or skin sensitisation:

May cause sensitisation by skin contact.

#### **Aspiration hazard:**

None under normal conditions.

#### Inhalation

May cause irritation to the respiratory system.

#### Skin contact

Irritating to skin.

#### Eye contact

Irritating and may cause redness and pain.

#### **SECTION 12: ECOLOGICAL INFORMATION**

## **Ecotoxicity**

The product is not expected to be hazardous to the environment.

#### 12.1. Toxicity

No data available.

## 12.2. Persistence and degradability

#### Degradability

The product is not readily biodegradable.

#### 12.3. Bioaccumulative potential

#### Bioaccumulative potential

No data available on bioaccumulation.

## 12.4. Mobility in soil

#### Mobility:

No data available. The product has poor water-solubility.

# 12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

## 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**

08 04 09\* waste adhesives and sealants containing organic solvents or other dangerous substances

#### **SECTION 14: TRANSPORT INFORMATION**

# 14.1. UN number

1993

## 14.2. UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (contains Methylmethacrylate)

## 14.3. Transport hazard class(es)

3

## Transport Labels



# 14.4. Packing group

Ш

## 14.5. Environmental hazards

# Environmentally Hazardous Substance/Marine Pollutant

No.

# 14.6. Special precautions for user

EMS F-E, S-E

**Hazard No. (ADR)** 33 Highly flammable liquid (flash-point below 23°C).

Tunnel Restriction Code (D/E)

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

Not applicable.

## **SECTION 15: REGULATORY INFORMATION**

#### 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

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

#### **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 05/08/2014

Revision 2

Supersedes date 06/06/2014

Risk Phrases In Full

R21/22 Harmful in contact with skin and if swallowed.

R11 Highly flammable

R36/38 Irritating to eyes and skin.

R36/37/38 Irritating to eyes, respiratory system and skin.
R37/38 Irritating to respiratory system and skin.
R43 May cause sensitisation by skin contact.

Hazard Statements In Full

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.H319 Causes serious eye irritation.

H335 May cause respiratory irritation.