

# SAFETY DATA SHEET

## M-Bond

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

#### 1.1. Product identifier

Product name M-Bond

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

Identified uses PC1 Adhesives, sealants

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier

Aztec Chemicals  
Unit 16, University Way  
Orion Park  
Crewe  
Cheshire  
CW1 6NG  
+ 44 (0) 1270 655500 (T)  
+ 44 (0) 1270 655501 (F)  
info@aztecchemicals.com

#### 1.4. Emergency telephone number

Emergency telephone +44 (0)7831 300868

### SECTION 2: Hazards identification

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

##### Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335

Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) Xi;R36/37/38.

Human health Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. Bonds skin and eyes in seconds.

#### 2.2. Label elements

##### Pictogram



Signal word Warning

Hazard statements  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

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<b>Precautionary statements</b>	<p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P260 Do not breathe spray.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P312 Call a POISON CENTER/ doctor if you feel unwell.</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/ container in accordance with local regulations.</p>
<b>Supplemental label information</b>	<p>RCH002b For professional users only.</p> <p>EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.</p>
<b>Contains</b>	Ethyl 2-cyanoacrylate

### 2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>Ethyl 2-cyanoacrylate</b>		<b>60-100%</b>
CAS number: 7085-85-0	EC number: 230-391-5	REACH registration number: 01-2119527766-29

<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Skin Irrit. 2 - H315	Xi;R36/37/38
Eye Irrit. 2 - H319	
STOT SE 3 - H335	

<b>HYDROQUINONE</b>		<b>&lt;1%</b>
CAS number: 123-31-9	EC number: 204-617-8	
M factor (Acute) = 1		

<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Acute Tox. 4 - H302	Carc. Cat. 3;R40 Muta. Cat. 3;R68 Xn;R22 Xi;R41 R43
Eye Dam. 1 - H318	N;R50
Skin Sens. 1 - H317	
Muta. 2 - H341	
Carc. 2 - H351	
Aquatic Acute 1 - H400	

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

<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Ingestion</b>	It is unlikely that this substance will be swallowed due to its physical properties. Rinse nose and mouth with water. Maintain an open airway. The product will polymerise immediately in the mouth making it almost impossible to swallow. Saliva will slowly separate the solidified product from the mouth (several hours). Get medical attention if symptoms are severe or persist.

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<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. If adhesive bonding occurs, do not force skin apart. If lips are accidentally stuck together apply warm water to the lips and encourage maximum wetting. Peel or roll lips apart. Do not try to pull the lips with direct opposing action. Do not pull bonded skin apart. It may be gently peeled apart using a blunt object such as a spoon, preferably after soaking in warm soapy water. Cyanoacrylate gives off heat on solidification. In rare cases a large drop will generate enough heat to burn. Burns should be treated normally after the adhesive has been removed from the skin. Expect separation in 2-4 days. Rinse immediately with plenty of water. Get medical attention.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention. Show this Safety Data Sheet to the medical personnel. If adhesive bonding occurs, do not force eyelids apart. Apply a pad soaked in warm water and allow the eyelids to separate. Cyanoacrylate will to eye protein and will cause periods of weeping which will help to debond the adhesive. Keep eye covered until debonding is complete. Get medical attention.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Irritation of nose, throat and airway. Coughing, chest tightness, feeling of chest pressure. Wheezing/breathing difficulties.
<b>Ingestion</b>	There may be soreness and redness of the mouth and throat.
<b>Skin contact</b>	Causes skin irritation. Redness.
<b>Eye contact</b>	May cause severe eye irritation. Redness. Profuse watering of the eyes.

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

<b>Notes for the doctor</b>	Treat symptomatically.
<b>Specific treatments</b>	If adhesive bonding occurs, do not force eyelids apart. Keep eye covered until debonding is complete. Apply a pad soaked in warm water and allow the eyelids to separate. Immediate effects can be expected after short-term exposure.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Water spray, foam, dry powder or carbon dioxide. Use fire-extinguishing media suitable for the surrounding fire. Use water spray to cool containers.
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### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.
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### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
<b>Special protective equipment for firefighters</b>	Wear chemical protective suit. Use air-supplied respirator, gloves and protective goggles. Avoid contact with skin and eyes. Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

## SECTION 6: Accidental release measures

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

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**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Do not breathe vapour. Turn leaking containers leak-side up to prevent the escape of liquid.

### 6.2. Environmental precautions

**Environmental precautions** Not considered to be a significant hazard due to the small quantities used. Do not discharge into drains or watercourses or onto the ground. Contain spillage with sand, earth or other suitable non-combustible material.

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

**Methods for cleaning up** Provide adequate ventilation. Dampen spillage with water. Upon curing material can be scraped away. Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely.

### 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** Avoid contact with skin and eyes.

**Advice on general occupational hygiene** Avoid the formation of mists. Do not use in confined spaces without adequate ventilation and/or respirator. Avoid direct contact with the substance.

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

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from light. Avoid contact with water or humidity. Suitable container materials: Polyethylene.

### 7.3. Specific end use(s)

**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

#### Occupational exposure limits

##### **Ethyl 2-cyanoacrylate**

Short-term exposure limit (15-minute): WEL 0.3 ppm 1.5 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

### 8.2. Exposure controls

**Appropriate engineering controls** All handling should only take place in well-ventilated areas.

**Eye/face protection** Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles. Provide eyewash station and safety shower.

**Hand protection** Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.

**Other skin and body protection** Provide eyewash station. Wear apron or protective clothing in case of contact.

**Hygiene measures** Wash at the end of each work shift and before eating, smoking and using the toilet.

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**Respiratory protection** If ventilation is inadequate, suitable respiratory protection must be worn. Self-containing breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmosphere. Air purifiers respirators will not provide protection. Users of breathing apparatus must be trained.

### 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>	Characteristic.
<b>Melting point</b>	-31°C
<b>Initial boiling point and range</b>	214°C @ 1003 hPa
<b>Flash point</b>	85°C
<b>Vapour pressure</b>	≤0.21 hPa @ 20°C
<b>Vapour density</b>	«59» «184»
<b>Relative density</b>	1.06 - 1.10 @ 20°C
<b>Solubility(ies)</b>	0.00002 g/l water @ 20°C Insoluble in water. Soluble in Acetone. Reacts with water.
<b>Partition coefficient</b>	log Pow: 1.42
<b>Auto-ignition temperature</b>	450°C
<b>Viscosity</b>	80-120 cP @ 25°C
<b>Comments</b>	Information given is applicable to the major ingredient.

#### 9.2. Other information

<b>Other information</b>	Not available.
<b>Volatile organic compound</b>	This product contains a maximum VOC content of 20 g/l.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** Stable at normal ambient temperatures and when used as recommended.

#### 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** Does not decompose when used and stored as recommended.

#### 10.4. Conditions to avoid

**Conditions to avoid** Avoid exposure to high temperatures or direct sunlight. Water, moisture.

#### 10.5. Incompatible materials

**Materials to avoid** Keep away from oxidising materials, heat and flames. Water, moisture. Strong oxidising agents. Strong acids.

#### 10.6. Hazardous decomposition products

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**Hazardous decomposition products** Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Inhalation** May cause sensitisation by inhalation. There may be irritation of the throat. Coughing, chest tightness, feeling of chest pressure. Wheezing/breathing difficulties.

**Ingestion** No harmful effects expected from quantities likely to be ingested by accident. There may be soreness and redness of the mouth and throat.

**Skin contact** May cause sensitisation by skin contact. DANGER bonds skin in seconds. There may be irritation and redness.

**Eye contact** DANGER bonds eyes in seconds. Irritation and redness, followed by blurred vision.

**Medical considerations** Immediate effects can be expected after short-term exposure.

### SECTION 12: Ecological Information

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

#### 12.1. Toxicity

**Toxicity** Not available.

#### 12.2. Persistence and degradability

**Persistence and degradability** Moderately biodegradable.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Bioaccumulation is unlikely.

**Partition coefficient** log Pow: 1.42

#### 12.4. Mobility in soil

**Mobility** Readily absorbed into soil.

#### 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** Negligible ecotoxicity.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**General information** Waste is classified as hazardous waste.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Waste class** 08 04 09 waste adhesives and sealants containing organic solvent or other dangerous substances.

### SECTION 14: Transport information

## M-Bond

### 14.1. UN number

UN No. (ADR/RID)	3334
UN No. (IMDG)	3334
UN No. (ICAO)	3334
UN No. (ADN)	3334

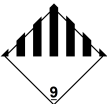
### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AVIATION REGULATED LIQUID, N.O.S.
Proper shipping name (IMDG)	AVIATION REGULATED LIQUID, N.O.S.
Proper shipping name (ICAO)	AVIATION REGULATED LIQUID, N.O.S.
Proper shipping name (ADN)	AVIATION REGULATED LIQUID, N.O.S.

### 14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID classification code	M11
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9

#### Transport labels



### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ADN packing group	III
ICAO packing group	III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant  
No.

### 14.6. Special precautions for user

### 14.7. Transport in bulk according to Annex II of MARPOL 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	Commission Regulation (EU) No 453/2010 of 20 May 2010.

## M-Bond

**Guidance** Workplace Exposure Limits EH40.  
CHIP for everyone HSG228.  
Safety Data Sheets for Substances and Preparations.  
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

<b>Revision comments</b>	Supplemental information added.
<b>Revision date</b>	24/02/2017
<b>Revision</b>	2
<b>SDS number</b>	11025
<b>SDS status</b>	Approved.
<b>Risk phrases in full</b>	R36/37/38 Irritating to eyes, respiratory system and skin. R42/43 May cause sensitisation by inhalation and skin contact.
<b>Hazard statements in full</b>	H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. H400 Very toxic to aquatic life.

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.