



## SAFETY DATA SHEET PRO-294 (Adhesive)

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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

#### 1.1. Product identifier

Product name PRO-294 (Adhesive)

Container size 25mL

#### 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 Bondloc UK Ltd  
Units 1 & 2 Bewdley Business Park  
Long Bank  
Bewdley  
Worcestershire  
DY12 2TZ  
+44 (0)1299 269269  
sales@bondloc.co.uk

#### 1.4. Emergency telephone number

Emergency telephone +44 (0)1299 269269

### SECTION 2: Hazards identification

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

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

Physical hazards Flam. Liq. 2 - H225

Health hazards Skin Corr. 1A - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 STOT SE 3 - H335

Environmental hazards Aquatic Chronic 3 - H412

#### 2.2. Label elements

##### Hazard pictograms



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.

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<b>Precautionary statements</b>	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P240 Ground and bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical equipment.</p> <p>P242 Use non-sparking tools.</p> <p>P243 Take action to prevent static discharges.</p> <p>P260 Do not breathe vapour/ spray.</p> <p>P261 Avoid breathing vapour/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a POISON CENTER/ doctor.</p> <p>P312 Call a POISON CENTRE/doctor if you feel unwell.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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**Contains** methyl methacrylate, methacrylic acid, maleic acid

### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures

<b>methyl methacrylate</b>		<b>30-60%</b>
CAS number: 80-62-6	EC number: 201-297-1	REACH registration number: 01-2119452498-28-0000
<b>Classification</b>		
Flam. Liq. 2 - H225		
Skin Irrit. 2 - H315		
Skin Sens. 1 - H317		
STOT SE 3 - H335		

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<b>Maleic acid</b> <span style="float: right;"><b>1-5%</b></span>		
CAS number: 110-16-7	EC number: 203-742-5	REACH registration number: 01-2119488705-25-0000
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT SE 3 - H335		
<b>2,6-Di-Tert-Butyl-P-Cresol (BHT)</b> <span style="float: right;"><b>1-5%</b></span>		
CAS number: 128-37-0	EC number: 204-881-4	REACH registration number: 01-2119565113-46-0000
M factor (Acute) = 1	M factor (Chronic) = 1	
<b>Classification</b> Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		
<b>methacrylic acid</b> <span style="float: right;"><b>1-5%</b></span>		
CAS number: 79-41-4	EC number: 201-204-4	REACH registration number: 01-2119463884-26-0000
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335		
<b><math>\alpha,\alpha</math>-dimethylbenzyl hydroperoxide</b> <span style="float: right;"><b>&lt;1%</b></span>		
CAS number: 80-15-9	EC number: 201-254-7	REACH registration number: 01-2119475796-19-0000
<b>Classification</b> Org. Perox. E - H242 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335 STOT RE 2 - H373 Aquatic Chronic 2 - H411		

The full text for all hazard statements is displayed in Section 16.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

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<b>Inhalation</b>	Move affected person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Do not induce vomiting. Give plenty of water to drink. Get medical attention.
<b>Skin contact</b>	Remove affected person from source of contamination. Wash skin thoroughly with soap and water. Get medical attention if symptoms are severe or persist after washing.
<b>Eye contact</b>	Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention. Get medical attention if irritation persists after washing.

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

#### **SECTION 5: Firefighting measures**

##### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with foam, carbon dioxide or dry powder.
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##### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	The product is highly flammable. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.
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##### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Do not use water jet as an extinguisher, as this will spread the fire. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses.
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<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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#### **SECTION 6: Accidental release measures**

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

<b>Personal precautions</b>	Avoid contact with skin and eyes. Avoid inhalation of vapours. Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage.
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##### 6.2. Environmental precautions

<b>Environmental precautions</b>	Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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##### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.
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##### 6.4. Reference to other sections

<b>Reference to other sections</b>	For personal protection, see Section 8. For waste disposal, see Section 13.
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#### **SECTION 7: Handling and storage**

##### 7.1. Precautions for safe handling

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**Usage precautions** Provide adequate ventilation. Mechanical ventilation or local exhaust ventilation may be required. Avoid contact with skin and eyes. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Advice on general occupational hygiene** When using do not eat, drink or smoke.

### 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.

### 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

##### **methyl methacrylate**

Long-term exposure limit (8-hour TWA): WEL 50 ppm 208 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100 ppm 416 mg/m<sup>3</sup>

##### **2,6-Di-Tert-Butyl-P-Cresol (BHT)**

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

### 8.2. Exposure controls

#### **Protective equipment**



**Appropriate engineering controls** Provide adequate general and local exhaust ventilation.

**Eye/face protection** Wear chemical splash goggles.

**Hand protection** Wear protective gloves made of the following material: Rubber (natural, latex).

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

**Hygiene measures** Provide eyewash station. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash promptly with soap and water if skin becomes contaminated.

**Respiratory protection** If ventilation is inadequate, suitable respiratory protection must be worn.

## SECTION 9: Physical and chemical properties

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

**Appearance** Paste.

**Colour** White/off-white.

**Odour** Slight pungent.

**Odour threshold** No information available.

**pH** pH (diluted solution): 30.-3.5

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<b>Melting point</b>	No information available.
<b>Initial boiling point and range</b>	101°C @
<b>Flash point</b>	11°C Tag closed cup.
<b>Evaporation rate</b>	3 (butyl acetate = 1)
<b>Upper/lower flammability or explosive limits</b>	: 2.1-12.5
<b>Vapour pressure</b>	28 mm Hg @ 20°C
<b>Vapour density</b>	> 1
<b>Solubility(ies)</b>	No information available.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	No information available.
<b>Decomposition Temperature</b>	No information available.
<b>Oxidising properties</b>	Not available.

**9.2. Other information**

**Other information** No information required.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

**Reactivity** Strong oxidising agents. Strong reducing agents.

**10.2. Chemical stability**

**Stability** Stable at normal ambient temperatures and when used as recommended. May polymerise.

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** May polymerise.

**10.4. Conditions to avoid**

**Conditions to avoid** Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time. Avoid exposure to high temperatures or direct sunlight.

**10.5. Incompatible materials**

**Materials to avoid** Avoid contact with the following materials: Oxidisers Reducing agents. Alkalis - inorganic. Alkalis - organic.

**10.6. Hazardous decomposition products****SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity - oral**

**ATE oral (mg/kg)** 6,250.0

**Acute toxicity - dermal**

**ATE dermal (mg/kg)** 15,714.29

**Acute toxicity - inhalation**

**ATE inhalation (vapours mg/l)** 600.0

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<b>Inhalation</b>	Vapours in high concentrations are narcotic. Vapours in high concentrations are anaesthetic. Vapours may cause headache, fatigue, dizziness and nausea. Vapour may affect central nervous system.
<b>Ingestion</b>	Irritating. May cause stomach pain or vomiting.
<b>Skin contact</b>	May be absorbed through the skin. Irritating to skin. Prolonged or repeated exposure may cause severe irritation. May cause sensitisation by skin contact.
<b>Eye contact</b>	Irritating to eyes. Symptoms following overexposure may include the following: Corneal damage.
<b>Target organs</b>	Liver Kidneys Central nervous system Respiratory system, lungs

### SECTION 12: Ecological information

#### 12.1. Toxicity

##### Ecotoxicity

#### 12.2. Persistence and degradability

**Persistence and degradability** Methyl methacrylate monomer : Biochemical oxygen demand within 5 days (BOD5) = .14g/g - 0.9g/g

#### 12.3. Bioaccumulative potential

**Partition coefficient** No information available.

#### 12.4. Mobility in soil

**Mobility** Not available

#### 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** Not available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**General information** Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**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 solvents or other dangerous substances.

### SECTION 14: Transport information

#### 14.1. UN number

**UN No. (ADR/RID)** 2924

**UN No. (IMDG)** 2924

**UN No. (ICAO)** 2924

**UN No. (ADN)** 2924

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### 14.2. UN proper shipping name

<b>Proper shipping name (ADR/RID)</b>	FLAMMABLE LIQUID, CORROSIVE, N.O.S. ((METHYL METHACRYLATE, METHACRYLIC ACID)
<b>Proper shipping name (IMDG)</b>	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHYL METHACRYLATE, METHACRYLIC ACID)
<b>Proper shipping name (ICAO)</b>	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHYL METHACRYLATE, METHACRYLIC ACID)
<b>Proper shipping name (ADN)</b>	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHYL METHACRYLATE, METHACRYLIC ACID)

### 14.3. Transport hazard class(es)

<b>ADR/RID class</b>	3
<b>ADR/RID subsidiary risk</b>	8
<b>ADR/RID classification code</b>	FC
<b>ADR/RID label</b>	3
<b>IMDG class</b>	3
<b>IMDG subsidiary risk</b>	8
<b>ICAO class/division</b>	3
<b>ICAO subsidiary risk</b>	8
<b>ADN class</b>	3
<b>ADN subsidiary risk</b>	8

#### Transport labels



### 14.4. Packing group

<b>ADR/RID packing group</b>	II
<b>IMDG packing group</b>	II
<b>ICAO packing group</b>	II
<b>ADN packing group</b>	II

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**  
No.

### 14.6. Special precautions for user

<b>EmS</b>	F-E, S-C
<b>ADR transport category</b>	2
<b>Emergency Action Code</b>	•3WE
<b>Hazard Identification Number (ADR/RID)</b>	338
<b>Tunnel restriction code</b>	(D/E)



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### 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

<b>EU legislation</b>	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). Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
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##### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### SECTION 16: Other information

<b>Revision date</b>	15/07/2019
<b>SDS number</b>	5867
<b>Hazard statements in full</b>	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. H318 Causes serious eye damage. H319 Causes serious eye irritation. H331 Toxic if inhaled. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

**PRECAUTIONS:** This product and the auxiliary materials normally combined with it are capable of producing adverse health effects ranging from minor skin irritation to serious systemic effects. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheets (MSDS) for this and all other products being used are understood by all persons who will work with the product.

**WARRANTY:** All products purchased from or supplied by Bondloc are subject to terms and conditions set out in the contract. Bondloc warrants only that its product will meet those specifications designated as such herein or in other publications. All other information supplied by Bondloc is considered accurate but are furnished upon the express condition the customer shall make its own assessment to determine the product's suitability for a particular purpose. Bondloc makes no other warranty, either express or implied, including those regarding such other information, the data upon which the same is based, or the results to be obtained from the use thereof; that any product shall be merchantable or fit for any particular purpose; or that the use of such other information or product will not infringe any patent.