

**1. IDENTIFICATION OF SUBSTANCES / MIXTURE AND OF THE COMPANY / UNDERTAKING****Product Identifiers**Product Name: **M27 Soluble Oil**

Product code: OCON 289

**Relevant identified uses of the substance or mixture and uses advised against**

Identified uses: Coolant / lubricant for the APD1 and APD2 saws

Uses advised against: This product is to be used only for the purpose stated above.

**Details of the supplier of the safety data sheet**Manufacturer: Logitech Ltd  
Erskine Ferry Road  
Old Kilpatrick  
Glasgow  
G60 5EU  
Scotland, UK

Telephone +44 (0) 1389 875444

E-mail coshh.info@logitech.uk.com

**Emergency telephone number**

+44 (0) 1389 875444 (09:00 – 17:00 Monday to Friday)

**2. HAZARDS IDENTIFICATION****Classification of the substance or mixture**

This material is a mixture

**Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:**

Eye Irritation	Category 2	H319	Causes serious eye irritation
Skin Irritation	Category 2	H315	Causes skin irritation
Aquatic Chronic Toxicity	Category 2	H411	Toxic to aquatic life with long lasting effects

**Classification according to CHIP and EU Directives 67/548/EEC or 1999/45/EC**

Symbol(s) Xi – Irritant

Risk phrase(s)	R36/38	Irritating to eyes and skin
	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Label elements****Labelling elements according to Regulation (EC) 1272/2008 (EU 'CLP' regulation)**

Pictogram (s):

Signal Word: **WARNING**

Hazard Statements

Causes serious eye irritation  
Causes skin irritation  
Toxic to aquatic life with long lasting effects

**Precautionary Statements**

Wear protective gloves/protective clothing/eye protection/face protection.  
Wash hands thoroughly after handling.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF ON SKIN: Gently wash with plenty of soap and water.  
If eye irritation persists: Get medical advice/attention.  
If skin irritation occurs: Get medical advice/attention.  
Avoid release to the environment.

**Additional labelling**

No information

**Labelling elements according to CHIP and EU Directives 67/548/EEC or 1999/45/EC**

**Symbol (s):**



**Indication of Danger:**

**IRRITANT**

**DANGEROUS FOR THE ENVIRONMENT**

**Risk Phrases**

Irritating to respiratory system and skin  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Safety Phrases**

Avoid contact with skin and eyes.  
Wear suitable gloves and eye/face protection.  
In case of contact with eyes, rinse immediately with plenty of water  
After contact with skin, wash immediately with plenty of water and soap.  
Avoid release to the environment. Refer to special instructions/Safety data sheets.

**Additional labelling**

No information

**Other hazards**

No information available

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

This material is a mixture

Component	CAS No.	EC No.	%
<b>Triethanolamine</b>	<b>102-71-6</b>	<b>203-049-8</b>	<b>5 - 10</b>
<i>Classification according to CHIP and EU Directives 67/548/EEC or 1999/45/EC:</i> Xi – Irritant                      R36                      Irritating to eyes			
<i>Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:</i> Eye Irritation                      Category 2                      H319 - Causes serious eye irritation			
<b>octanoic acid, compound with 2-</b>	<b>28098-03-5</b>	<b>248-838-8</b>	<b>1 - 5</b>

<b>aminoethanol (1:1)</b>			
<i>Classification according to CHIP and EU Directives 67/548/EEC or 1999/45/EC:</i> Xi – Irritant                      R36/38                      Irritating to eyes and skin			
<i>Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:</i> Eye Irritation                      Category 2                      H319 Causes serious eye irritation Skin Irritation                      Category 2                      H315 Causes skin irritation			
<b>3,3'-Methylene-bis-[5-methyloxazolidine]</b>	<b>66204-44-2</b>	<b>266-235-8</b>	<b>1 - 4</b>
<i>Classification according to CHIP and EU Directives 67/548/EEC or 1999/45/EC:</i> Xn – Harmful                      R21/22                      Harmful in contact with skin and if swallowed C – Corrosive                      R34                      Causes burns N - Dangerous for the environment R52                      Harmful to aquatic organisms			
<i>Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:</i> Acute toxicity -dermal                      Category 4                      H312 Harmful in contact with skin Acute toxicity –oral                      Category 4                      H302 Harmful if swallowed Aquatic Chronic                      Category 3                      H412 Harmful to aquatic life with long lasting effects Skin corrosion                      Category 1B                      H314 Causes severe skin burns and eye damage			
<b>2-Aminoethanol</b>	<b>141-43-5</b>	<b>205-483-3</b>	<b>1 - 4</b>
<i>Classification according to CHIP and EU Directives 67/548/EEC or 1999/45/EC:</i> Xn – Harmful                      R20/21/22                      Harmful by inhalation, in contact with skin and if swallowed C – Corrosive                      R34                      Causes burns			
<i>Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:</i> Acute toxicity –oral                      Category 4                      H302 Harmful if swallowed Acute toxicity-dermal                      Category 4                      H312 Harmful in contact with skin Acute toxicity-inhalation                      Category 4                      H332 Harmful if inhaled Skin corrosion                      Category 1B                      H314 Causes severe skin burns and eye damage			
<b>polymer quaternary ammonium compounds</b>	<b>31075-24-8</b>		<b>0.1 -1</b>
<i>Classification according to CHIP and EU Directives 67/548/EEC or 1999/45/EC:</i> Xn – Harmful                      R20                      Harmful by inhalation N - Dangerous for the environment R50/53                      Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment			
<i>Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:</i> Acute toxicity–inhalation                      Category 4                      H332 Harmful if inhaled Aquatic Acute                      Category 1                      H400 Very toxic to aquatic life Aquatic Chronic                      Category 1                      H410 Very toxic to aquatic life with long lasting effects			

#### 4. FIRST AID MEASURES

##### Description of first aid measures

**General advice**

Remove from source of exposure.

**Inhalation**

Remove from exposure to fresh air. If irritation persists seek medical advice

**Ingestion**

Wash out mouth thoroughly with water, drink plenty of water Do not induce vomiting. Seek medical attention

**Skin contact**

Wash area with soap and water then rinse thoroughly with water. If person experiences continued irritation seek medical advice.

Remove contaminated clothing and laundry before re-use.

**Eye contact**

Rinse immediately with plenty of water. If present, remove contact lenses and continue rinsing for at least 10 minutes. If irritation persists obtain medical attention.

**Most important symptoms and effects, both acute and delayed**

No data available

**Indication of any immediate medical attention and special treatment needed**

No information

**5. FIRE-FIGHTING MEASURES****Extinguishing media**

This product does not burn.

Suitable extinguishing media: All types.

Unsuitable extinguishing media: None

**Special hazards arising from the substances or mixture**

Product is based on organic materials. Decomposition in a fire situation will produce carbon dioxide, carbon monoxide and irritating and toxic organic chemicals.

**Advice for fire fighters**

Wear self-contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Prevent contact with eyes and skin – wear Personal Protective equipment (PPE)

Avoid breathing fumes / vapour / mist. Ensure good ventilation or wear PPE.

Wash hands after handling

**Environmental precautions**

Do not allow to contaminate rivers, streams, other waterways, drains, or other aquatic systems.

Use absorbent materials (spill kit materials, sand, absorbent granules, earth etc) to contain the spillage and prevent environmental contamination.

Advise local authorities immediately if significant spillages cannot be contained.

**Methods and material for containment and cleaning up**

Use absorbent materials (spill kit materials, sand, absorbent granules, earth etc) to soak up the spillage. Sweep or scrape the absorbed material into a sealable storage container.

Remove final residues with a water / detergent mixture, running the water to foul sewer (NOT surface water drains).

**Reference to any other sections**

See section 8 for Personal Protective Equipment (PPE)

See section 13 for disposal information

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## 7. HANDLING AND STORAGE

### Precautions for safe handling:

Minimise skin contact. Wear chemically impervious gloves.

Prevent eye contact. Wear eye protection.

Avoid breathing fumes / mist / vapour – ensure adequate ventilation or fume extraction.

Do not eat, drink or smoke while using material. Wash hands after use.

### Conditions for safe storage, including any incompatibilities

Keep containers sealed in a cool, well ventilated area.

Do not store in direct sunlight or near other heat sources.

### Specific end use(s)

None identified

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### Exposure limits

UK Workplace Exposure Limits (WELs) exists for:

2-aminoethanol:

LTEL 1 ppm / 2.5 mg/m<sup>3</sup> (8 hr TWA)

STEL: 3 ppm / 7.6 mg/m<sup>3</sup> (15 min ref. period)

Other exposure limits may be specified in individual countries. Check national legislation for appropriate exposure limits.

Exposure should be controlled to avoid exceeding the specified limits

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available

### Exposure controls

#### Appropriate engineering controls

Design equipment to prevent eye contact and to minimise skin exposure and inhalation of fumes / vapour.

#### Personal protective equipment

If PPE is necessary to control exposure use the following:

Respiratory protection	Use an EN149 approved respirator fitted with a combined particle and organic vapour filter (type AP). The correct selection, fitting, use, storage and maintenance of respiratory protective equipment is important. Follow manufacturer's recommendation or seek expert advice. HSE document HSG 53 provides some guidance
Hand protection	Chemically impervious gloves suitable for use the components listed in section 3 e.g. Nitrile gloves. Follow manufacturer recommendations on inspection and replacement.
Skin protection	Long sleeved clothing. Replace contaminated clothing before skin contact occurs.
Eye protection	EN approved goggles or face shield if eye contact likely.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemicals properties

Appearance: clear yellow liquid

Odour: mild

Odour threshold:	information not available
pH:	9.7      DIN 51369 (7/1981)
Melting point:	< 0 °C
Boiling point:	information not available
Flash point:	> 100 °C    ASTM D93-80
Evaporation rate	information not available
Flammability	information not available
Upper/lower	information not available
Explosive limits	information not available
Vapour pressure	information not available
Vapour density	information not available
Density	1.04g/ml    DIN 51757/7 (1/1984)
Solubility in water:	completely soluble
Solubility in other	
Ingredients:	information not available
Partition coefficient	
Octanol/water:	information not available
Auto-ignition temperature	information not available
Decomposition temperature	information not available
Viscosity	3 mm <sup>2</sup> /s @ 20 °C    DIN 51562/1 (1/1983)
Explosion properties:	information not available
Oxidising properties:	Not oxidising.

**Other information**

No additional data available

**10. STABILITY AND REACTIVITY**

**Reactivity**

Not reactive to materials commonly used in the transportation, handling and storage.

**Chemical stability**

Stable at room temperature.

**Possibility of hazardous reactions**

Formaldehyde may be released below pH of 7. Formaldehyde is very hazardous / dangerous.

**Conditions to avoid**

Ignition sources

**Incompatible materials**

Acids

Strong oxidising agents

**Hazardous decomposition products**

Thermal decomposition will produce carbon dioxide, carbon monoxide and irritating and toxic organic chemicals.

**11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

Acute toxicity	No data available
Irritation	Expected to be irritating to the eyes and skin.
Corrosivity	No data available
Sensitisation	No data available
Repeated dose toxicity	No data available
Carcinogenicity	No data available
Mutagenicity	No data available
Toxicity for reproduction	No data available

**Other information**

No data available

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## 12. ECOLOGICAL INFORMATION

### Toxicity

Data not available

### Persistence and biodegradability

Data not available

### Bioaccumulative potential

Data not available

### Mobility in Soil

Data not available

### Results of PBT and vPvB assessment

Data not available

### Other adverse effects

Data not available

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## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### Product

Dispose of product as hazardous waste in accordance with local, national and international legislation, using an approved registered waste disposal company.  
The European Waste Code will depend upon the use of the product and cannot be specified here. (consider 12-01-09 for unused product)

#### Packaging

Clean uncontaminated packaging can be disposed of as general waste: European Waste Code 15 01 xx (xx will depend upon the type of packaging e.g. plastic, cardboard etc. Refer to European Waste Catalogue). Recycle such waste wherever possible.  
Contaminated packaging / containers must be disposed of as hazardous waste

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## 14. TRANSPORT INFORMATION

### UN number

3082

	ADR/RID	IMDG	IATA
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (polymer quaternary ammonium components)		
<b>Transport hazard class(s)</b>	9	9	9
<b>Packing group</b>	III	III	III

### IMDG Pollutant:

No

### Special precautions for user

None identified

### Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code

No information available

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## 15. REGULATORY INFORMATION

This Safety Data Sheet has been prepared in accordance with the requirements of regulation (EC) No 1907/2006 as amended by regulation (EU) No 453/2010.

Workplace exposure Limits given in section 8 have been taken from the UK HSE document: EH40/2005 Workplace exposure limits (2<sup>nd</sup> edition, 2011).

Relevant regulations:

Regulation (EC) 1272/2008 (EU 'CLP' regulation)

Regulation (EC) 790/2009 First Adaptation to Technical Progress (ATP) for CLP regulation

Regulation (EC) 286/2011 Second Adaptation to Technical Progress (ATP) for CLP regulation

EU Directive 67/548/EEC ('Dangerous Substances Directive')

Regulation (EC) No 1907/2006 ('REACH')

Regulation (EU) No 453/2010.

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

None identified

**Chemical safety assessment**

A Chemical Safety Assessment has not been undertaken for this product.

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**16. OTHER INFORMATION**

The information contained in the Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, storage, transportation and disposal. It is not intended as a warranty or specification. The information relates only to the product specified and may not be suitable for combinations with other materials.