

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 sheetManufacturer: Logitech Ltd
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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.	%
Triethanolamine	66204-44-2	266-235-8	5 - 10
<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			
octanoic acid, compound with 2-	28098-03-5	248-838-8	1 - 5

aminoethanol (1:1)			
<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			
3,3'-Methylene-bis-[5-methyloxazolidine]	66204-44-2	266-235-8	1 - 4
<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			
2-Aminoethanol	141-43-5	205-483-3	1 - 4
<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			
polymer quaternary ammonium compounds	31075-24-8		0.1 -1
<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

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure limits

UK Workplace Exposure Limits (WELs) exists for:

2-aminoethanol:

LTEL 1 ppm / 2.5 mg/m³ (8 hr TWA)
STEL: 3 ppm / 7.6 mg/m³ (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.

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 ² /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

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

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

14. TRANSPORT INFORMATION

UN number

3082

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

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 (2nd 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.

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.