



SAFETY DATA SHEET
TRI-LOGIC ML

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Compilation date: 25/11/2014

Revision date: 05/02/2016

Revision No: 10

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: TRI-LOGIC ML

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

Use of substance / mixture: Water miscible metalworking fluid

1.3. Details of the supplier of the safety data sheet

Company name: ROCOL

ROCOL House

Swillington

Leeds

West Yorkshire

LS26 8BS

ENGLAND

Tel: +44 (0) 113 232 2700

Fax: +44 (0) 113 232 2740

Email: customer-service@rocol.com

1.4. Emergency telephone number

Emergency tel: +44 (0) 113 232 2600

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Skin Irrit. 2: H315; Eye Irrit. 2: H319; -: EUH208

Most important adverse effects: Contains 2-octyl-2h-isothiazol-3-one. May produce an allergic reaction. Causes skin irritation. Causes serious eye irritation.

2.2. Label elements

Label elements:

Hazard statements: EUH208: Contains 2-octyl-2h-isothiazol-3-one. May produce an allergic reaction.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

Hazard pictograms: GHS07: Exclamation mark



Signal words: Warning

[cont...]

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Precautionary statements: P264: Wash thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+352: IF ON SKIN: Wash with plenty of water/.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+313: If skin irritation occurs: Get medical advice/attention.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

MINERAL OIL (NOTE L <3% DMSO EXTRACTABLE COMPONENTS)

EINECS	CAS	PBT / WEL	CLP Classification	Percent
265-155-0	64742-52-5	Substance with a Community workplace exposure limit.	-	50-70%

FATTY ACID ALKANOLAMIDE

202-281-7	93-83-4	-	Skin Irrit. 2: H315; Eye Irrit. 2: H319	1-10%
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(ORTHO)BORIC ACID, COMPOUND WITH 2,2IMINODIETHANOL

267-886-0	67952-33-4	-	Skin Irrit. 2: H315; Eye Irrit. 2: H319	1-10%
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ALCOHOLS C16-C18, C18-UNSATURATED, ETHOXYLATED (<2,5 EO)

500-236-9	68920-66-1	-	Skin Irrit. 2: H315; Aquatic Chronic 3: H412	1-10%
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METHYLENE BIS-METHYLOXAZOLIDINE

266-235-8	66204-44-2	-	Acute Tox. 4: H302; Skin Corr. 1C: H314; Acute Tox. 4: H332	1-10%
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UNDECANEDIOIC ACID

217-440-6	1852-04-6	-	Eye Irrit. 2: H319	<1%
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SODIUM PYRITHIONE

223-296-5	3811-73-2	-	Acute Tox. 4: H302+312+332; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Aquatic Acute 1: H400; -: EUH070	<1%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water.

[cont...]

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Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.

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

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: There may be coughing and a sore throat.

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

Immediate / special treatment: Show this safety data sheet to the doctor in attendance.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Use water spray to cool containers. Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area.

Suitable packaging: Must only be kept in original packaging.

[cont...]

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7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

MINERAL OIL (NOTE L <3% DMSO EXTRACTABLE COMPONENTS)

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	5mg/m3	10mg/m3	-	-

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protection not normally required.

Hand protection: Protective gloves.

Eye protection: Safety glasses with side-shields.

Skin protection: Protective clothing.

Environmental: No special requirement.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Yellow-brown

Odour: Characteristic odour

Evaporation rate: Negligible

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Soluble

Viscosity: Viscous

Boiling point/range°C: 100

Flash point°C: > 100

Autoflammability°C: > 200

Relative density: 1

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

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10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong reducing agents.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

MINERAL OIL (NOTE L <3% DMSO EXTRACTABLE COMPONENTS)

DERMAL	RBT	LD50	>5000	mg/kg
ORAL	RAT	LD50	>5000	mg/kg

FATTY ACID ALKANOLAMIDE

DERMAL	RBT	LD50	> 2000	mg/kg
ORAL	RAT	LD50	> 2000	mg/kg

ALCOHOLS C16-C18, C18-UNSATURATED, ETHOXYLATED (<2,5 EO)

ORAL	RAT	LD50	> 2000	mg/kg
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METHYLENE BIS-METHYLOXAZOLIDINE

ORAL	RAT	LD50	900	mg/kg
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Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: There may be coughing and a sore throat.

[cont...]

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Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

ALCOHOLS C16-C18, C18-UNSATURATED, ETHOXYLATED (<2,5 EO)

FISH	96H LC50	10 - 100	mg/l
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SODIUM PYRITHIONE

DAPHNIA	48H EC50	0.022	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	0.0066	mg/l

12.2. Persistence and degradability

Persistence and degradability: Only slightly biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: Non-volatile. Absorbed only slowly into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

[cont...]

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Phrases used in s.2 and s.3: EUH070: Toxic by eye contact.
EUH208: Contains <name of sensitising substance>. May produce an allergic reaction.
H302: Harmful if swallowed.
H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H400: Very toxic to aquatic life.
H412: Harmful to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

