

1. IDENTIFICATION OF SUBSTANCES / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifiers

Product Name: **Ethandiol Polishing Fluid**

Product code: OCON-133, OCON-134

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

Identified uses: Solvent

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 substance

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

Acute Tox. (oral) Category 4 H302 - Harmful if swallowed

Specific target organ toxicity (repeated exposure) Category 2 H373

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

Symbol(s) Xn- Harmful

Risk phrase(s) R22 - Harmful if swallowed

Label elements

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

Pictogram (s):



Signal Word: **WARNING**

Hazard Statements

Harmful if swallowed

May cause damage to organs through prolonged repeated exposure

Precautionary Statements

P301+P330+P331 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P280 Wear protective gloves/protective clothing/eye protection/face protection
P260 Do not breathe dust/fume/gas/mist/vapours/spray
P312 Call a POISON CENTER/Dr if you feel unwell

Contains Ethylene glycol (CAS No. 107-21-1)

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

Symbol:



Indication of Danger: HARMFUL

Safety phrases: Keep out of the reach of children

Other hazards

This material can be absorbed through the skin.

3. COMPOSITION / INFORMATION ON INGREDIENTS

This material is a substance

Component	CAS No.	EC No.	%	Molecular formula	Molecular Weight	REACH registration no.	INDEX No.
Ethylene glycol	107-21-1	203-473-3	>95	HOCH ₂ CH ₂ OH	62.07 g/mol	01-2119456816-28-XXXX	603-027-00-1

4. FIRST AID MEASURES

General information

IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

After inhalation

Call a POISON CENTRE/doctor. Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

In case of ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.

Most important symptoms and effects, both acute and delayed

no data available

Indication of any immediate medical attention and special treatment needed

no data available

Self-protection of the first aider

First aider: Pay attention to self-protection!

Information to physician

No data available

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

Suitable extinguishing media:

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Extinguishing media not to be used for safety reasons:

No restriction

Special hazards arising from the substances or mixture

In case of fire may be liberated:

Carbon monoxide

Carbon dioxide (CO₂)

Advice for fire fighters

Do not fire fiht when fire reaches explosives.

Special protection equipment for firefighters.

Wear self contained breath apparatus and chemical protective clothing.

Additional Information

Do not allow run-off from fire-fighting to enter drains or water courses.

Do no inhale explosion and combustion gases.

Use water spray jet to protect personnel and to cool endangered containers.

In case of fire: Evacuate area.

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

In case of major fire and large quantities: Remove persons to safety.

Environmental precautions

Discharge into the environment must be avoided.

Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Collect in closed and suitable containers for disposal.

Additional Information

Clear spills immediately

7. HANDLING AND STORAGE**Precautions for safe handling:**

Avoid: Inhalation, contact with skin and eyes. Use extractor hood (laboratory). If handled uncovered, arrangements with local exhaust veniltation have to be used. If local exhaust ventilation is not possible or not suddicient, the entire working area must be ventilated by technical means. Usual measures for fire prevention. Strong dehydrating effect (hygroscopic).

Conditions for safe storage, including any incompatibilities

Recommended storage temperature: 15-25 °C

Storage class: 10-13

Keep container tightly closed and in a well-ventilated place..

Specific end use(s)

None identified

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Ingredient (Deisgnation)	Regulatory Information	Country	Limit value type (country of origin)	Limit value	Remark
Ethylene glycol	2000/39/EC	EU	LTV	52 mg/m ³ - 20 ppm	
Ethylene glycol	2000/39/EC	EU	STV	104 mg/m ³ - 40 ppm	

Exposure limits

A UK Workplace Exposure Limit (WEL) exists for:

Ethylene glycol vapour:

LTEL 20 ppm / 52 mg/m³ (8 hr TWA)

STEL: 40 ppm / 104 mg/m³ (15 min ref. period)

Ethylene glycol airborne particulates:

LTEL 10 ppm / 26 mg/m³ (8 hr TWA)

An EU Indicative Occupational Exposure Limit Value (IOELV) exists for Ethylene glycol vapour:

LTEL 20 ppm / 52 mg/m³ (8 hr TWA)

STEL: 40 ppm / 104 mg/m³ (15 min ref. period)

Exposure must be controlled to avoid exceeding these levels.

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

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available

Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

Personal protective equipment

Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

Eye / face protection

Eye glasses with side protection DIN-/EN-Norms: DIN EN 166

Recommendation: VWR 111-0432

Skin protection:

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Recommended glove articles DIN-/EN-Norms: DIN EN 374 In the case of wanting to use the gloves again, clean them before taking off and air them well.

By short-term hand contact:

Suitable material: NBR (Nitrile rubber)

Thickness of glove material: 0,12mm

Breakthrough time (max. wearing time): 30-60 min

Recommended glove articles: VWR 112-0998

Respiratory protection:

Respiratory protection necessary at: aerosol or mist formation

Suitable respiratory protection apparatus:	Full-/half-/quarter-face masks (DIN EN 136/140)
Recommendation:	VWR 111-0206
Suitable material:	ABEK2P3
Recommendation:	VWR 111-0059

Additional Information

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and lave lits location conspicuously.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemicals properties**

Appearance:	Liquid
Colour:	Colourless
Odour:	information not available
Odour threshold:	information not available
pH:	6-8 (100 g/l; H ₂ O; 20 °C)
Melting point/freezing point:	-13°C
Boiling point:	196 - 198 °C (1013 hPa)
Flash point:	116 °C
Evaporation rate	information not available
Flammability	not applicable
Upper/lower explosive limits	Upper 15.3% v/v Lower 3.2 % v/v
Vapour pressure	0.08 hPa (20 °C)
Vapour density	2.14 (20 °C)
Density	1.115 g/cm ³ (20 °C)
Solubility in water:	soluble (20 °C)
Solubility in other	
Ingredients:	information not available
Partition coefficient	
Octanol/water:	-1.36 (20 °C)
Auto-ignition temperature	410 °C (DIN 51794)
Decomposition temperature	information not available
Viscosity	Kinematic viscosity: no data available Dynamic viscosity: 21 mPa*s (20 °C)
Ignition temperature	information not available
Oxidising properties:	not applicable

Other information

Bulk density:	not applicable
Refraction index:	1.43312 (589 nm;20°C)
Surface tension:	no data available
Dissociation constant:	no data available
Henry constant:	no data available

10. STABILITY AND REACTIVITY**Reactivity**

No data available

Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

Possibility of hazardous reactions

No data available

Conditions to avoid

No data available

Incompatible materials

No data available

Hazardous decomposition products

No data available

11. TOXICOLOGICAL INFORMATION**Information on toxicological effects**

Acute toxicity	Oral: LD 50 (rat): <2000 mg/kg (IUCLID) LDLo (human): >786 mg/kg (RTECS) Dermal: LD50 (rat): 10600 mg/kg (Japan GHS) Basis for classification data)
Skin corrosion/irritation	no applicable
Serious eye damage/ eye irritation	no applicable
Respiratory or skin sensitisation	In case of skin contact: not sensitising After inhalation: not sensitising
Germ cell mutagenicity	no evidence of germ cell mutagenicity
Carcinogenicity	no evidence of carcinogenicity.
Reproductive toxicity	no indication of human reproductive toxicity
Specific target organ toxicity – Single exposure	not applicable
Specific target organ toxicity – Repeated exposure	May cause damage to organs
Aspiration hazard	not applicable

Further information

No data available

12. ECOLOGICAL INFORMATION**Toxicity****Fish toxicity:**

LC50: 54700 mg/l (96 h) - Mayes, M.A., H.C. Alexander, and D.C. Dill 1983. A Study to Assess the Influence of Age on the Response of Fathead Minnows in Static Acute Toxicity Tests. Bull.Environ.Contam.Toxicol. 31(2):139-147

Daphnia toxicity:

LC50: 41000 mg/l (48 h) - Gersich, F.M., F.A. Blanchard, S.L. Applegath, and C.N. Park 1986. The Precision of Daphnid (*Daphnia magna* Straus, 1820) Static Acute Toxicity Tests. Arch.Environ.Contam.Toxicol. 15(6):741-749

Algae toxicity:

no data available

Bacteria toxicity:

no data available

Persistence and biodegradability

No data available

Bioaccumulative potential

Partition coefficient: n-octanol/water: -1.36 (20°C)

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 according to local legislation. Consult the appropriate local waste disposal expert about waste disposal. Send to a hazardous waste incinerator facility under observation of official regulations.

Waste code product: 070104

Packaging

Dispose according to local legislation. Handle contaminated packages in the same way as the substance itself.

14. TRANSPORT INFORMATION**UN number**

Not a dangerous good

UN proper shipping name

Not a dangerous good

Transport hazard class(s)

Not a dangerous good

Packing group

Not a dangerous good

Environmental hazards

Not a dangerous good

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.

The Workplace exposure Limit given in section 8 has been taken from the UK HSE document: EH40/2005 Workplace exposure limits as amended.

The EU Indicative Occupational Exposure Limit Value (IOELV) in section 8 has been taken from Commission directive 2000/39/EC

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.

DSEAR: Dangerous Substances and Explosive Atmospheres Regulations 2002

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.