SAFETY DATA SHEET

Ethanediol Polishing Fluid

Date: January 2012

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

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

Precautionary Statements
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

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.	%
Ethylene glycol	**107-21-1**	**203- 473-3**	**>95**

4. FIRST AID MEASURES

Description of first aid measures

General advice
Remove from source of exposure.

Inhalation
Excessive inhalation unlikely at room temperature.
Excessive inhalation of fumes from heated material - Remove from exposure, rest and keep warm. If there are signs of irritation or difficulty breathing seek medical attention.

Ingestion
Wash out mouth thoroughly with water. Do not induce vomiting. Seek immediate medical attention

Skin contact
Rinse well with plenty of water. In the event of persistent irritation seek medical advice

Eye contact
Rinse immediately, including under the eye lids, with plenty of water for at least 10 minutes. If irritation persists seek medical advice.

Most important symptoms and effects, both acute and delayed
No specific effects and/or symptoms have been reported or are known.

Indication of any immediate medical attention and special treatment needed
None

5. FIRE-FIGHTING MEASURES

Extinguishing media
Suitable extinguishing media: Water spray, alcohol resistant foam, dry extinguishing powder, carbon dioxide
Unsuitable extinguishing media: None

Special hazards arising from the substances or mixture
This product is an organic compound. Combustion may produce irritating or toxic by-products including carbon monoxide.

Advice for fire fighters
Use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Keep people away from the spillage.
Avoid breathing vapours / fumes – ensure good ventilation.
Minimise contact with the material – wear protective equipment if exposed to large (litre) quantities.

Environmental precautions
Do not allow to enter sewers, drains or waterways

Methods and material for containment and cleaning up
For small spillages (less than 500 ml) dilute with at least ten times the volume of water then run to foul sewer while continuing to dilute greatly with running water. Do not run to surface water drains. For larger spills absorb on an inert absorbent, transfer to sealed containers and dispose of as hazardous waste.

Reference to any other sections
See section 8 for details of Personal Protective Equipment (PPE)
See section 13 for disposal information

7. HANDLING AND STORAGE

Precautions for safe handling:
Minimise skin contact. Do not allow repeated or prolonged skin exposure.
Avoid breathing vapours / fumes – provide adequate ventilation or extraction.
Wear personal protective equipment if necessary to prevent such exposure.

Conditions for safe storage, including any incompatibilities
Keep containers tightly sealed in a cool, well ventilated area away from ignition sources.
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
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
Use ventilation (natural or forced) or extraction to minimise inhalation of fumes / vapour.

Personal protective equipment
If PPE is necessary to control exposure, use:

Eye / face protection
If eye contact is likely wear EN approved safety glasses with side shields, goggles or face shield.

Skin protection:
If significant or repeated skin exposure is likely wear chemically impervious gloves suitable for use with ethylene glycol e.g. Nitrile, PVC gloves. Follow manufacturer recommendations on inspection and replacement.
Fabric gloves or gloves with seams are not suitable.
Wear plastic aprons, plastic arm protectors and safety boots / Wellingtons if handling very large quantities.

Respiratory protection:
If personnel are likely to be exposed to a significant level of fumes (very strong smell / irritation / discomfort experienced) wear a EN149 approved respirator fitted with a suitable organic vapour filter
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
If using a respirator with a filter the correct selection of the filter is essential. (filter type A will offer some protection).
The use of respiratory protection should only be considered as a short term safety measure until effective engineering controls are implemented.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemicals properties

Appearance:	Viscous liquid. Pure material is colourless but product may be dyed.
Odour:	Odourless
Odour threshold:	information not available
pH:	information not available
Melting point:	-13^{o}C
Boiling point:	196 - 198 ^{o}C
Flash point:	116 ^{o}C
Evaporation rate	information not available
Flammability	information not available
Upper/lower	Upper 28% vol
explosive limits	Lower 3 % vol
Vapour pressure	information not available
Vapour density	2.1
Density	1.11 g/cm^{3}
Solubility in water:	completely miscible
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	information not available
Ignition temperature	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 under normal conditions of use.

Possibility of hazardous reactions
No hazardous reactions known under normal conditions of use

Conditions to avoid
Excessive heat, incompatible materials.

Incompatible materials
Strong oxidizing agents, acids and bases. Aldehydes. Aluminium.

Hazardous decomposition products
Carbon dioxide, Carbon monoxide, formaldehydes and other irritating or toxic organic by-products may be produced in a fire situation.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity	Oral: LD 50 (rat): 4000 mg / kg
Skin corrosion/irritation	no data available.
Serious eye damage/ eye irritation	no data available.
Respiratory or skin sensitisation	no data available.
Germ cell mutagenicity	effects have been reported in humans
Carcinogenicity	no evidence of carcinogenicity.
Reproductive toxicity	effects have been noted in animal tests
Specific target organ toxicity – Single exposure	no data available.
Specific target organ toxicity – Repeated exposure	no data available.
Aspiration hazard	no data available.

Further information
Target organs: Central nervous system (CNS), Kidney, Liver
See RTECS entry for complete information.

12. ECOLOGICAL INFORMATION

Toxicity

Acute toxicity for fish (Leuciscus idus)	no data available
Acute toxicity for crustacea (Daphnia magna)	no data available
Acute toxicity for algae (Selenastrum capriocornutum)	no data available

Persistence and biodegradability
Readily biodegradable

Bioaccumulative potential
Data not available.

Mobility in Soil
Data not available.

Results of PBT and vPvB assessment
Data not available. Not expected to be classified as PBT or vPvB.

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.

Packaging
Clean 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).

Containers previously used to store this product that are now free of the product (residues can be removed by washing) can be disposed of as general (non-hazardous) waste. Recycle such containers where possible.

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

Changes from previous version (version 2):

Section 2 Labelling information now provided in accordance with both CHIP and CLP regulations

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.