

1. IDENTIFICATION OF SUBSTANCES / MIXTURE AND OF THE COMPANY / UNDERTAKING**Product Identifiers**Product Name: **Chemlox Polishing Fluid**

Product code: OCON-141

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

Identified uses: Aqueous suspension of chlorine and abrasive material for polishing laboratory and industrial samples.

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
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:

Not classified as hazardous

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

Not classified as dangerous

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

No labelling required under these regulations

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

No labelling required under these regulations

Other Hazards

Will react with acids to release chlorine gas. Chlorine can be hazardous to health

3. COMPOSITION / INFORMATION ON INGREDIENTS**Mixtures**

This material is a mixture of water, sodium hypochlorite, non-hazardous abrasive materials and surfactants. Sodium hypochlorite is present at less than 5%.

There are no hazardous substances present at or above threshold limits.

4. FIRST AID MEASURES

Description of first aid measures

General advice

Remove from source of exposure.

Inhalation

Product is a liquid – inhalation is unlikely.

Inhalation of gases / fumes: Move to fresh air. If person experiences irritation or difficulty breathing seek medical advice

Ingestion

If a small amount ingested, drink plenty of water. If more than a small amount ingested, or if person experiences discomfort seek medical advice. Do not induce vomiting.

Skin contact

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

Eye contact

Immediately wash out with plenty of water. After initial flushing, remove any contact lenses and continue flushing. 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

Product is not flammable.

Use extinguishing medium appropriate to surroundings

Special hazards arising from the substances or mixture

The product contains water which may boil or turn to steam in a fire situation.

Chlorine and hydrochloric acid gas may be evolved.

Advice for fire fighters

Wear self contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Prevent eye contact and minimise skin contact. Use personal protective equipment.

Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Environmental precautions

Do not allow to contaminate rivers, streams, other waterways, drains, soil or the remaining environment.

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:

Prevent eye contact and minimise skin contact with liquid material.
Avoid breathing vapour / fume. Provide adequate ventilation or extraction if significant vapour / mist generated.

Conditions for safe storage, including any incompatibilities

DO NOT allow contact with acids. Contact with acids will liberate chlorine gas.
Keep container tightly closed in a cool, dry and well-ventilated place.
Recommended storage temperature: 4 - 25°C
Do not store near acids.

Specific end use(s)

None identified

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure limits:

The UK Workplace Exposure Limit (WEL) for chlorine applies:

Chlorine	STEL	0.5 ppm / 1.5 mg/m ³ (15 min ref period)
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Other exposure limits may be specified in other 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

Provide adequate ventilation. Minimise inhalation of fumes.

Personal Protective Equipment (PPE)

If PPE is necessary to control exposure use the following:

Respiratory protection If significant vapour / fume generated (or irritation is experienced) use an EN149 approved respirator fitted with a combined particle and chlorine 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

Hand protection Chemically impervious gloves suitable for use with chlorine solutions e.g. Nitrile, PVC gloves. Follow manufacturer recommendations on inspection and replacement.
Fabric gloves or gloves with seams are not suitable.

Skin protection Wear long sleeved clothing to prevent splashing of skin. Replace clothing that becomes contaminated before the product comes into contact with the skin.

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:	White liquid
Odour:	slight 'chlorine' smell
Odour threshold:	information not available
pH:	11.0 – 13.0
Melting point:	information not available
Boiling point:	100 °C
Flash point:	not applicable – non flammable
Evaporation rate	information not available
Flammability	information not available
Upper/lower explosive limits	not applicable – non flammable / non explosive
Vapour pressure	information not available
Vapour density	information not available
Density	information not available
Solubility in water:	fully 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
Explosion properties:	information not available
Oxidising properties:	information not available

Other information

No additional data available

10. STABILITY AND REACTIVITY

Reactivity

Not reactive to materials commonly used in the transportation, handling and storage but is corrosive to metals.

Reacts with acids to release chlorine gas. Chlorine is very hazardous to health.

Chemical stability

Stable at room temperature.

Possibility of hazardous reactions

Will react with acids to release chlorine gas. Chlorine is very hazardous to health.

Conditions to avoid

Contact with acids, excessive heat

Incompatible materials

None identified

Hazardous decomposition products

None identified

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity	no data available
Irritation	no data available
Corrosively	no data available
Sensitisation	no data available
Repeated dose toxicity	no data available
Carcinogenicity	not carcinogenic
Mutagenicity	no data available
Toxicity for reproduction	no data available

Irritating to eyes, skin, respiratory tract. Can cause severe damage to the eyes.

12. ECOLOGICAL INFORMATION

Toxicity

Acute toxicity for fish	no data available
Acute toxicity for crustacea	no data available
Acute toxicity for algae	no data available

Persistence and biodegradability

Data not available.

Bioaccumulative potential

Data not available. Not expected to be bioaccumulative.

Mobility in Soil

Data not available.

Results of PBT and vPvB assessment

No components are classified as PBT or vPvB.

Other adverse effects

Very toxic to aquatic life.

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). Recycle such waste wherever possible.
Contaminated packaging must be disposed of as hazardous waste

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.

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

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

Changes from version 1:

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

Changes from version 2:

- a) Section 1 Revised description of use
- b) Section 2 Hazard and labelling revised
Other Hazard information amended
- c) Section 3 Compositional information altered
- d) Section 6 recommended that eye contact is prevented
- e) Section 7 recommended that eye contact is prevented
- f) Section 10 Reactivity data amended
- g) Section 11 Mutagenicity data not known
- h) Section 14 transport information amended
- i) Other minor editorial changes that do not affect the technical information content may have been implemented

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.