

SAFETY DATA SHEET LACTOPHENOL COTTON BLUE

According to Regulation (EU) No 453/2010

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name LACTOPHENOL COTTON BLUE
Product No. PL.7054, PL.7055

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

Identified uses Laboratory reagent.

1.3. Details of the supplier of the safety data sheet

Supplier Pro-Lab Diagnostics
3 Bassendale Road
Wirral
Merseyside
CH62 3QL
Tel: 0151 353 1613
Fax: 0151 353 1614
mowen@pro-lab.com

1.4. Emergency telephone number

+44 (0)151 353 1613 Monday to Friday 9.00 to 17.00
+44 (0)7714 429 646 outside the above hours

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) T;R23/24/25. Xn;R48/20/21/22. Muta Cat. 3;R68. C;R34.

Human health

Causes burns. Toxic by inhalation, in contact with skin and if swallowed. Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. Possible risk of irreversible effects. Mutagen Category 3.

2.2. Label elements

Contains PHENOL

Labelling



Toxic



Corrosive

Risk Phrases

R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R48/20/21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R68	Possible risk of irreversible effects.

Safety Phrases

S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27	Take off immediately all contaminated clothing.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S60	This material and its container must be disposed of as hazardous waste.

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2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

GLYCEROL	30-60%
CAS-No.: 56-81-5	EC No.: 200-289-5
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.
LACTIC ACID	10-30%
CAS-No.: 598-82-3	EC No.: 209-954-4
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Dam. 1 - H318	Classification (67/548/EEC) Xi;R38,R41.
PHENOL	10-30%
CAS-No.: 108-95-2	EC No.: 203-632-7
Classification (EC 1272/2008) Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Muta. 2 - H341 STOT RE 2 - H373	Classification (67/548/EEC) Muta. Cat. 3;R68 T;R23/24/25 C;R34 Xn;R48/20/21/22

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Move into fresh air and keep at rest. Get medical attention if any discomfort continues.

Ingestion

Get medical attention immediately! Do not induce vomiting. Immediately rinse mouth and provide fresh air.

Skin contact

Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention.

Eye contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

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

Inhalation.

Spray mists may cause respiratory tract irritation.

Ingestion

May cause chemical burns in mouth and throat. May cause internal injury.

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Skin contact

Chemical burns. Blistering may occur.

Eye contact

Corneal damage.

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

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

During fire, toxic gases (CO, CO₂) are formed.

Unusual Fire & Explosion Hazards

May travel considerable distance to source of ignition and flash back.

Specific hazards

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂).

5.3. Advice for firefighters

Special Fire Fighting Procedures

Avoid breathing fire vapours. Move container from fire area if it can be done without risk. Use water spray to reduce vapours. Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up

Wear necessary protective equipment. Stop leak if possible without risk. DO NOT touch spilled material! Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not let washing down water contaminate ponds or waterways.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Read and follow manufacturer's recommendations. Avoid spilling, skin and eye contact. Wash hands after handling.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry and cool place.

Storage Class

Toxic storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
GLYCEROL	WEL		10 mg/m ³			
PHENOL	WEL	2 ppm	7,8 mg/m ³	4 ppm	16 mg/m ³	Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

8.2. Exposure controls

Protective equipment



Hand protection

Use protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection

Wear approved safety goggles.

Other Protection

Provide eyewash station.

Hygiene measures

DO NOT SMOKE IN WORK AREA! Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Deep blue.
Odour	Odour of alcohol.
Solubility	Soluble in water.

9.2. Other information

Not determined.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

10.5. Incompatible materials

10.6. Hazardous decomposition products

During fire, toxic gases (CO, CO₂) are formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

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Inhalation

Not relevant at normal room temperatures. When heated, toxic vapours may be formed.

Ingestion

Toxic if swallowed. Causes burns.

Skin contact

Toxic in contact with skin. Causes burns.

Eye contact

Causes burns. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

Toxicological information on ingredients.

PHENOL (CAS: 108-95-2)

Acute toxicity:

Acute Toxicity (Oral LD50)

340 mg/kg Rat

REACH dossier information

Acute Toxicity (Dermal LD50)

0.625 mg/kg Rat

REACH dossier information

GLYCEROL (CAS: 56-81-5)

Acute toxicity:

Acute Toxicity (Oral LD50)

27 mg/kg Rat

REACH dossier information

Acute Toxicity (Dermal LD50)

45 mg/kg Guinea Pig

REACH dossier information

Acute Toxicity (Inhalation LC50)

4655 mg/l (vapours) Rat 7 hours

LACTIC ACID (CAS: 598-82-3)

Acute toxicity:

Acute Toxicity (Oral LD50)

3730 mg/kg Rat

Miscellaneous reference sources.

Acute Toxicity (Dermal LD50)

2000 mg/kg Rabbit

Miscellaneous reference sources.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity

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Ecological information on ingredients.

PHENOL (CAS: 108-95-2)

Acute Toxicity - Fish

LC50 96 hours 8.9 mg/l Onchorhynchus mykiss (Rainbow trout)

REACH dossier information

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 3.1 mg/l Daphnia magna

REACH dossier information

Acute Toxicity - Aquatic Plants

EC50 96 hours 61.1 mg/l Freshwater algae

REACH dossier information

GLYCEROL (CAS: 56-81-5)

Acute Toxicity - Fish

LC50 96 hours 54000 mg/l Onchorhynchus mykiss (Rainbow trout)

REACH dossier information

Acute Toxicity - Aquatic Invertebrates

LC50 48 hours 1955 mg/l Daphnia magna

REACH dossier information

192 hours > 10000 mg/l Scenedesmus quadricauda

REACH dossier information

LACTIC ACID (CAS: 598-82-3)

Acute Toxicity - Fish

LC50 96 hours 600 mg/l

Miscellaneous reference sources.

12.2. Persistence and degradability

Degradability

There are no data on the degradability of this product.

Ecological information on ingredients.

PHENOL (CAS: 108-95-2)

Biodegradation

Water Degradation (86%) 20 days

REACH dossier information

The substance is readily biodegradable.

GLYCEROL (CAS: 56-81-5)

Biodegradation

Activated sludge Degradation (94%) 24 hours

REACH dossier information

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Ecological information on ingredients.

GLYCEROL (CAS: 56-81-5)

Bioaccumulation factor

Scientifically unjustified.

REACH dossier information

12.4. Mobility in soil

Mobility:

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Not determined.

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12.6. Other adverse effects

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Recover and reclaim or recycle, if practical.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN)	2821
UN No. (IMDG)	2821
UN No. (ICAO)	2821

14.2. UN proper shipping name

Proper Shipping Name PHENOL SOLUTION

14.3. Transport hazard class(es)

ADR/RID/ADN Class	6.1
ADR/RID/ADN Class	Class 6.1:Toxic substances.
ADR Label No.	6.1
IMDG Class	6.1
ICAO Class/Division	6.1

Transport Labels



14.4. Packing group

ADR/RID/ADN Packing group	III
IMDG Packing group	III
ICAO Packing group	III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

EMS	F-A, S-A
Emergency Action Code	2X
Hazard No. (ADR)	60
Hazard No. (ADR)	60 Toxic or slightly toxic substance.
Tunnel Restriction Code	(E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

Updated STEL for Phenol.

Revision Date 01-2012

Revision 5

Supersedes date 11-2011

Risk Phrases In Full

R34 Causes burns.

R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

R38 Irritating to skin.

NC Not classified.

R68 Possible risk of irreversible effects.

R41 Risk of serious damage to eyes.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

Hazard Statements In Full

H318 Causes serious eye damage.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H330 Fatal if inhaled.

H373 May cause damage to organs <<Organs>> through prolonged or repeated exposure.

H341 Suspected of causing genetic defects.

H331 Toxic if inhaled.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

Disclaimer

The information in this safety data sheet was obtained from current and reliable sources. However, the data is provided without warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond Pro-Lab Diagnostics control, it is the users responsibility to perform thorough testing of this product when used in combination with any other product. It is suggested that users familiarise themselves with this safety data sheet before handling the product.