OXFORD LAB FINE CHEM LLP

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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

4-CHLORO TOLUENE 99%

(Para Chloro Toluene)
(For Synthesis)
MSDS CAS: 106-43-4

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: 4-CHLORO TOLUENE
CAS#: 106-43-4
Synonym: Para Chloro Toluene
Chemical Name: 4-CHLORO TOLUENE
Chemical Formula: C_7H_7Cl

Brand : OXFORD

Details Of The Supplier Of The Safety Data Sheet :

Company identification: **OXFORD LAB FINE CHEM LLP**
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
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Tel: 91-250-2390989
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
4-Chloro Toluene	106-43-4	100

Section 3: Hazards Identification

Risk advice to man and the environment:

Flammable. Harmful by inhalation.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Section 4: First Aid Measures

General advice:

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled:

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact:

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5: Fire and Explosion Data

Suitable extinguishing media:

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Special protective equipment for fire-fighters:

Wear self contained breathing apparatus for fire fighting if necessary.

Further information:

Use water spray to cool unopened containers.

Section 6: Accidental Release Measures

Personal precautions:

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods for cleaning up:

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Handling:

Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.
Take measures to prevent the build up of electrostatic charge.

Storage:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8: Exposure Controls/Personal Protection

Personal protective equipment

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 8: Exposure Controls/Personal Protection (Continued)

Hand protection:
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Eye protection: Safety glasses.

Skin and body protection:
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures:
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9: Physical and Chemical Properties

Appearance Form	**: Liquid, Clear.**
Colour	**: Light yellow.**
Ph	**: No data available.**
Molecular Weight	**: 126.59 g/mole.**
Melting point	**: 6 - 8 °C**
Boiling point	**: 162 °C**
Flash point	**: 53,0 °C - closed cup.**
Ignition temperature	**: No data available.**
Lower explosion limit	**: No data available.**
Upper explosion limit	**: No data available.**
Vapour pressure	**: 13,3 hPa at 45,0 °C**
Density	**: 1,07 g/Ml at 25 °C**
Water solubility	**: No data available.**

Partition coefficient: n-octanol/waterlog Pow: 3,32

Section 10: Stability and Reactivity Data

Storage stability: Stable under recommended storage conditions.

Conditions to avoid: Heat, flames and sparks.

Materials to avoid: Strong oxidizing agents

Hazardous decomposition products:
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas.

Section 11: Toxicological Information

Acute toxicity:
LD50 Oral - rat - 2.100 mg/kg
Remarks: Behavioral: Change in motor activity (specific assay). Cyanosis Gastrointestinal: Changes in structure or function of salivary glands. LC50 Inhalation - mouse - 2 h - 34.000 mg/m3.

Irritation and corrosion: No data available.

Sensitization: No data available.

Chronic exposure:
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Signs and Symptoms of Exposure:
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects:
Inhalation Harmful if inhaled. May cause respiratory tract irritation.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.
Ingestion May be harmful if swallowed.
Target Organs Liver, Kidney

Section 12: Ecological Information

Elimination information (persistence and degradability):
No data available.

Ecotoxicity effects:
Toxicity to daphnia and other aquatic invertebrates.
Immobilization EC50 - Daphnia - 1,6 mg/l - 48 h

Further information on ecology:
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Section 13: Disposal Considerations

Product:
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging:
Dispose of as unused product.

Section 14: Transport Information

Land transport (ADR-RID)
Proper shipping name: CHLOROTOLUENES
UN N°: 2238
H.I. nr: 30
ADR - Class: 3
Labelling - Transport: 3 : Flammable liquid.
ADR - Group: III

Sea transport (IMDG) [English only]
Proper shipping name: CHLOROTOLUENES
UN N°: 2238
IMO-IMDG - Class or division: 3 : Flammable liquid.
IMO-IMDG - Packing group: III

Section 14: Transport Information (Continued)

Air transport (ICAO-IATA) [English only]
Proper shipping name: CHLOROTOLUENES
UN N°: 2238
IATA - Class or division: 3 : Flammable liquid.
IATA - Packing group: III

Section 15: Other Regulatory Information

Labelling according to EC Directives
EC Label Hazard symbols
Xn Harmful
N Dangerous for the environment

R-phrase(s):
R10 Flammable.
R20 Harmful by inhalation.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s):
S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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