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MATERIAL SAFETY DATA SHEET

2-CHLORO TOLUENE 95% (Ortho Chloro Toluene) (For Synthesis) MSDS CAS: 95-49-8

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: 2-CHLORO TOLUENE

CAS#: 95-49-8

Synonym: Ortho Chloro Toluene

Chemical Name: 2-CHLORO TOLUENE

Chemical Formula: C₇H₇C

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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Mumbai, Maharashtra, INDIA.
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
2-Chlorotoluene	95-49-8	100

Section 3: Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Acute toxicity, Inhalation (Category 4)

Chronic aquatic toxicity (Category 2)

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

Harmful by inhalation.

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

Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Hazard statement(s):

H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s):

P273 Avoid release to the environment.

Supplemental Hazard Statements: None.

R-phrase(s):

R20 Harmful by inhalation.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s):

S24/25 Avoid contact with skin and eyes.

S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Section 4: First Aid Measures

Description of 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.

Section 4: First Aid Measures (Continued)

In case of eye contact:

Flush eyes with water as a precaution.

If swallowed:

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

Most important symptoms and effects, both acute and delayed:

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

Indication of any immediate medical attention and special treatment needed:

No data available.

Section 5: Fire and Explosion Data

Extinguishing media

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture:

Carbon oxides, Hydrogen chloride gas.

Advice for firefighters:

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, protective equipment and emergency procedures:

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.

Section 6: Accidental Release Measures (Continued)

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 and materials for containment and cleaning up:

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Section 7: Handling and Storage

Precautions for safe handling:

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

Conditions for safe storage, including any incompatibilities:

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.

Specific end uses: No data available.

Section 8: Exposure Controls/Personal Protection

Control parameters

Components with workplace control parameters

Exposure controls

Appropriate engineering controls:

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

Personal protective equipment

Eye/face protection:

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Section 8: Exposure Controls/Personal Protection (Continued)

Skin protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

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

Body Protection:

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose 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 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Form	: Liquid, Clear.
Colour	: Colourless.
Odour	: No data available.
Molecular Weight	:126,58 g/mole
Odour Threshold	: No data available.
Ph	: No data available.
Melting point	: -36 °C-lit.
Initial boiling point	: 157 -159 °C-lit.
Flash point	: 42,0 °C-closed cup.
Evaporation rate	: No data available.
Flammability (solid, gas)	: No data available.
Explosive limits	: No data available.
Vapour pressure	: 13,3 hPa at 43,0 °C

Section 9: Physical and Chemical Properties (Continued)

Vapour density	: No data available.
Relative density	: 1,083 g/cm ³ at 25 °C
Water solubility	: No data available.
Partition coefficient: n-octanol/water:	No data available.
Autoignition temperature	: No data available.
Decomposition temperature	: No data available.
Viscosity	: No data available.
Explosive properties	: No data available.
Oxidizing properties	: No data available.

Section 10: Stability and Reactivity Data

Reactivity: No data available.

Chemical stability: No data available.

Possibility of hazardous reactions: No data available.

Conditions to avoid: Heat, flames and sparks.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products:

Other decomposition products: No data available.

Section 11: Toxicological Information

Information on toxicological effects

Acute toxicity

LD50 Oral-rat-3.900 mg/kg

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye: Other. Behavioral: Tremor.
Behavioral: Excitement.

Skin corrosion/irritation: No data available.

Section 11: Toxicological Information (Continued)

Serious eye damage/eye irritation:

Eyes-rabbit-Moderate eye irritation

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity

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.

Reproductive toxicity: No data available

Specific target organ toxicity -single exposure: No data available

Specific target organ toxicity -repeated exposure: No data available

Aspiration hazard: No data available

Potential health effects

Inhalation Harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Signs and Symptoms of Exposure:

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

Section 12: Ecological Information

Toxicity:

Toxicity to fish LC0-Leuciscus idus (Golden orfe)-11 mg/l-48,0 h

LC50-other fish-7,8 mg/l-96,0 h

Toxicity to daphnia and other aquatic invertebrates:

ImmobilizationEC50-Daphnia magna (Water flea-20 mg/l 24 h

Section 12: Ecological Information (Continued)

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Results of PBT and vPvB assessment: No data available.

Other adverse effects: Toxic to aquatic life.

Section 13: Disposal Considerations

Waste Disposal :

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

No data available.

Chemical Safety Assessment: No data available.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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