OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

CHLORINE TABLETS

MSDS CAS:

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: CHLORINE TABLETS
CAS#:
Synonym:
Chemical Name: Not applicable.
Chemical Formula: Not applicable.

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,
Navghar, Vasai (East). Palghar - 401 210.
Mumbai, Maharashtra, INDIA.
Tel: 91-250-2390989
Tel/Fax: 91-250-2390032

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
TROCLOSENE SODIUM	2893-78-9	60-100%
ADIPIC ACID	124-04-9	30-60%

Toxicological Data on Ingredients: **Chlorine LD50: Not available. LC50: Not available.**

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Section 3: Hazards Identification

Classification of the substance or mixture:

Classification (EC 1272/2008):

Physical and Chemical Hazards : Ox. Sol. 2 - H272
Human health: EUH031 ;Acute Tox. 4 - H302;Eye Irrit. 2 - H319;STOT SE 3 - H335
Environment : Aquatic Chronic 1 - H410

Classification (1999/45/EEC) : Xn;R22. Xi;R36/37. O;R8. N;R50/53. R31.

Human health: **Irritating to eyes. Splashes may cause serious eye damage. In high concentrations, vapours may be irritating to the respiratory system.**

Environment: **The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.**

Physical and Chemical Hazards: **Warning! Do not use together with other products. May release dangerous gases (chlorine).**

Section 4: First Aid Measures

Eye Contact:
Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

Skin Contact:
Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

Inhalation: **Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention. WARNING! Effects on the lungs may be delayed.**

Serious Inhalation: **Not available.**

Ingestion:
Rinse mouth thoroughly. DO NOT induce vomiting. Get medical attention immediately. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Give milk instead of water if readily available.

Serious Ingestion: **Not available.**

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Section 5: Fire and Explosion Data

Extinguishing media:

Suitable extinguishing media : **Foam. Dry powder. Carbon dioxide. Water spray. Sand.**

Special hazards arising from the substance or mixture:

Hazardous combustion products: Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2). Hydrogen chloride (HCl). Chlorine. Nitrous gases (NOx). Unusual Fire & Explosion Hazards May develop highly toxic or corrosive fumes if heated.

Advice for fire-fighters: Use supplied air respirator if product is involved in a fire. Use water to keep fire exposed containers cool and disperse vapours. Keep run-off water out of sewers and water sources. Dike for water control. Move container from fire area if it can be done without risk. Use water SPRAY only to cool containers! Do not put water on leaked material. 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

Personal precautions, protective equipment and emergency procedures:

Avoid contact with skin and eyes. Use protective gloves, goggles and suitable protective clothing. Do not breathe vapour. Avoid inhalation of dust.

Environmental precautions:

Do not allow ANY environmental contamination. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

Methods and material for containment and cleaning up:

GENERAL. Clean-up personnel should use respiratory and/or liquid contact protection only if the product becomes wet. Call supplier for advice. COLLECT. Shovel into dry containers. Cover and move the containers. Flush the area with water.

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Section 7: Handling and Storage

Precautions for safe handling:
Read and follow manufacturer's recommendations. Avoid spilling, skin and eye contact. Avoid handling which leads to dust formation. Avoid inhalation of vapours. Provide good ventilation.

Conditions for safe storage, including any incompatibilities
Store in tightly closed original container in a dry, cool and well-ventilated place. Store separated from: Acids. Oxidising material. Keep in original container. Keep separate from food, feedstuffs, fertilisers and other sensitive material. Storage Class: Chemical storage.

Section 8: Exposure Controls/Personal Protection

Exposure controls:

Engineering measures: Provide adequate general and local exhaust ventilation.
Hand protection:Use suitable protective gloves if risk of skin contact.
Eye protection:Wear approved safety goggles.
Other Protection:Wear appropriate clothing to prevent reasonably probable skin contact.
Hygiene measures:Wash hands at the end of each work shift and before eating, smoking and using the toilet.
Skin protection:Wear apron or protective clothing in case of contact.

Section 9: Physical and Chemical Properties

Physical state and appearance: Tablet.

Odor	**: Chlorine.**
Taste	**: Not available.**
Molecular Weight	**: Not applicable.**
Color	**: White.**
pH (1% soln/water)	**: 6.0 - 7.0 1%**
Boiling Point	**: Not available.**
Melting Point	**: Not available.**
Critical Temperature	**: Not available.**
Specific Gravity	**: Not available.**
Vapor Pressure	**: Not available.**

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Section 9: Physical and Chemical Properties (Continued)

Vapor Density	**: Not available.**
Volatility	**: Not applicable**
Odor Threshold	**: Not available.**
Water/Oil Dist. Coeff.	**: Not available.**
Ionicity (in Water)	**: Not available.**
Dispersion Properties	**: Not available.**
Solubility	**: Miscible with water (effervesess to release Chlorine Gas.)**

Section 10: Stability and Reactivity Data

Stability: **Avoid Contact with acids. Contact with alkalis. Mixing with any other material.**

Reactivity: **Generates toxic gas in contact with acid.**

Instability Temperature: **Not available.**

Conditions to avoid: **Generates toxic gas in contact with acid. Avoid contact with: Strong mineral acids. May react with amines to form noxious Chloramines.**

Incompatibility with various substances: **Amines. Strong oxidising substances. Strong acids.**

Hazardous decomposition products: **Fire creates: Carbon dioxide (CO2). Carbon monoxide (CO). Chlorine. Hydrogen chloride (HCl). Nitrous gases (NOx).**

Section 11: Toxicological Information

Information on toxicological effects:

Toxicological information:

No information available.

Inhalation: **Irritating to respiratory system. Repeated exposure may cause chronic upper respiratory irritation.**

Ingestion: **Harmful if swallowed. Swallowing concentrated chemical may cause severe internal injury.**

Skin contact: **Liquid or powder may irritate skin.**

Eye contact: **Irritating to eyes. Repeated exposure may cause chronic eye irritation.**

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Section 12: Ecological Information

Toxicity information: **Acute Fish Toxicity:**
Do not release into surface water. Discharge of large quantities into the aquatic environment may kill fish and other aquatic organisms. Readily biodegradable so unlikely to accumulate in the aquatic environment.

BOD5 and COD: **Not available.**

Persistence - degradability: **This product is readily biodegradable.**

Bioaccumulative potential: **The product is not bioaccumulating.**

Toxicity of the Products of Biodegradation: **Not available.**

Special Remarks on the Products of Biodegradation: **Not available.**

Results of PBT and vPvB assessment: **The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.**

Section 13: Disposal Considerations

Waste Disposal : **Contact specialist disposal companies. Do not mix with any other waste materials. Dispose of waste and residues in accordance with local authority requirements.**

Section 14: Transport Information

Land transport (ADR-RID)
Proper shipping name : Environmentally Hazardous Substance, Solid, n.o.s.
(contains Sodium Troclosene, Dihydrate)
UN N° : 3077
ADR - Class 9: Miscellaneous dangerous substances and articles.
ADR - Group : III

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Section 14: Transport Information (Continued)

Sea transport (IMDG) [English only]

Proper shipping name : Environmentally Hazardous Substance, Solid, n.o.s.
(contains Sodium Troclosene, Dihydrate)

UN N° : 3077
IMO-IMDG - Class or division : 9
IMO-IMDG - Packing group : III

Air transport (ICAO-IATA) [English only]

Proper shipping name : Environmentally Hazardous Substance, Solid, n.o.s.
(contains Sodium Troclosene, Dihydrate)

UN N° : 3077
IMO-IMDG - Class or division : 9
IMO-IMDG - Packing group : III

Section 15: Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:
Statutory Instruments:
Control of Substances Hazardous to Health.
Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes
Workplace Exposure Limits EH40.

EU Legislation
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of

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Section 15: Other Regulatory Information (Continued)

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.

National Regulations:

Control of Substances Hazardous to Health Regulations 2002 (as amended) The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 ("CDG 2009"), SI 2009 No 1348.

Chemical Safety Assessment

No chemical safety assessment has been carried out.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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