OXFORD LAB FINE CHEM LLP

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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

FERROUS CHLORIDE Anhydrous
Extra Pure
MSDS CAS :- 7758-94-3

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: **FERROUS CHLORIDE Anhydrous Extra Pure**
CAS#: 7758-94-3
C.I. No.:
Synonym: **Iron(II) chloride**
Chemical Name: **Not available.**
Chemical Formula: **$FeCl_2$**
Molecular Weight: **126.75**

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
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Ferrous chloride	7758-94-3	100%

Section 3: Hazards Identification

Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral(Category 4), H302

Skin corrosion(Category 1B), H314

Label elements:

Hazard statements:

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

Precautionary statements:

P280:Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305 + P351 + P338:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER/doctor.

Supplemental Hazard Statements: None

Other hazards: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or high

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: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

Section 4: First Aid Measures (Continued)

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.

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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: Hydrogen chloride gas, Iron oxides

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further information: No data available.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

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: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Precautions for safe handling: **Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Provide appropriate exhaust ventilation at places where dust is formed.**

Conditions for safe storage, including any incompatibilities: Store in cool place.Keep container tightly closed in a dry and well-ventilated place.Handle and store under inert gas.Air and moisture sensitive.

Storage class (TRGS 510): Combustible solids, corrosive.

Section 8: Exposure Controls/Personal Protection

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).

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.

Body Protection:Complete suit protecting against chemicals, The type of protective equipment must be sel ected 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 (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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

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Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties:

Physical state and appearance	**: Beads.**
Odour	**: Not available.**
Odour Threshold	**: Not available.**
pH	**: Not available.**
Melting point/freezing point	**: 677 °C-lit.**
Initial boiling point and boiling range	**: 1,023 °C**
Flash point	**: Not available.**
Evaporation rate	**: Not available.**
Flammability (solid, gas)	**: Not available.**
Upper/lower flammability or explosive limits	**: Not available.**
Vapour pressure	**: Not available.**
Vapour density	**: Not available.**
Relative density	**: 3.16 g/mL At 25 °Cn)**
Water solubility	**: Not available.**
Partition coefficient: octanol/water	**: Not available.**
Auto-ignition temperature	**: Not available.**
Decomposition temperature	**: Not available.**
Viscosity	**: Not available.**
Explosive properties	**: Not available.**
Oxidizing properties	**: Not available.**

Section 10: Stability and Reactivity Data

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No data available.

Conditions to avoid: Air sensitive. Avoid moisture.

Section 10: Stability and Reactivity Data (Continued)

Incompatible materials: Strong oxidizing agents, Forms shock-sensitive mixtures with certain other materials., Potassium, Sodium/sodium oxides.

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

Other decomposition products- No data available.

Section 11: Toxicological Information

Information on toxicological effects:

Acute toxicity: LD50 Oral-Rat-> 500 mg/kg (Ferrous Chloride)
(OECD Test Guideline 423)

Skin corrosion/irritation:
Skin-Rabbit (Ferrous Chloride)
Result: No skin irritation
(OECD Test Guideline 404)

Serious eye damage/eye irritation:
Eyes- Rabbit (Ferrous Chloride)
Result: Risk of serious damage to eyes.
(OECD Test Guideline 405)

Respiratory or skin sensitisation: No data available (Ferrous Chloride)

Germ cell mutagenicity: Hamster(Ferrous Chloride)
Embryo Morphological transformation.
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 (Ferrous Chloride).

Section 12: Ecological Information

Toxicity:

Toxicity to fish: LC50- Oryzias latipes-46.6 mg/l-96 h(Ferrous Chloride)
(OECD Test Guideline 203).

Toxicity to daphnia and other aquatic invertebrates:
EC50-Daphnia magna (Water flea)-19 mg/l-48 h(Ferrous Chloride)
(OECD Test Guideline 202).

Toxicity to algae : EC50-Selenastrum capricornutum (green algae)-17.7 mg/l-72 h (Ferrous Chloride)
(OECD Test Guideline 201).

Persistence and degradability: No data available:

Bioaccumulative potential: No data available

Mobility in soil: No data available (Ferrous Chloride)

Results of PBT and vPvB assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects: Toxic to aquatic life.

Section 13: Disposal Considerations

Waste treatment methods:
Product: Offer surplus and non-recyclable solutions to a licensed disposal company.
Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging: Dispose of as unused product.

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name	**: Ferrous chloride (Iron dichloride)**
UN N°	**: 3260**
ADR – Class	**: 8: Corrosive Solid.**
ADR – Group	**: II**

Sea transport (IMDG) [English only]

Proper shipping name	**: Ferrous chloride (Iron dichloride)**
UN N°	**: 3260**
IMO-IMDG - Class or division	**: 8: Corrosive Solid**
IMO-IMDG - Packing group	**: II**

Air transport (ICAO-IATA) [English only]

Proper shipping name	**: Ferrous chloride (Iron dichloride)**
UN N°	**: 3260**
IATA - Class or division	**: 8: Corrosive Solid.**
IATA - Packing group	**: II**

Section 15: Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical safety assessment: **For this product a chemical safety assessment was not carried out.**

Section 16 - Additional Information

References: **Not available.**

Other Special Considerations: **Not available.**

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