OXFORD LAB FINE CHEM LLP

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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

COPPER (II) CHROMITE

(Copper Chromium oxide)

MSDS CAS: 12053-18-8

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: COPPER (II) CHROMITE
CAS#: 12053-18-8
Synonym: Copper Chromium oxide
Chemical Name: Copper Chromite
Chemical Formula: $Cr_2Cu_2O_5$

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.
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS No	% by Weight
Copper Chromite	12053-18-8	100

Section 3: Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Oxidizing solids (Category 2), H272
Specific target organ toxicity -single exposure (Category 3), Respiratory system, H335
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 3), H412

Label elements

Labelling according Regulation (EC) No 1272/2008

Hazard statement(s):

H272 May intensify fire; oxidizer.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s):

P220 Keep/Store away from clothing/ combustible materials.
P261 Avoid breathing dust.
P273 Avoid release to the environment.

According to European Directive 67/548/EEC as amended.

R-phrase(s):

R 8 Contact with combustible material may cause fire.
R37 Irritating to respiratory system.
R50 Very toxic to aquatic organisms.

S-phrase(s):

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

If swallowed:
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:
Copper oxides, Chromium oxides

Advice for fire-fighters
Wear self-contained breathing apparatus for firefighting 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 dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

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 material for containment and cleaning up:

Sweep up and shovel. 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). 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. Keep away from sources of ignition -No smoking. Keep away from heat and sources of ignition.

Conditions for safe storage, including any incompatibilities:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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:

Safety glasses with side-shields conforming to EN166 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.

Body Protection:

Impervious 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 particle respirator type N100 (US) or type P3 (EN 143) 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).

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.

Section 9: Physical and Chemical Properties

Physical state at 20 °C	**: Powder.**
Colour	**: Grey**
Odour	**: No data available.**
Odour threshold	**: No data available.**
pH value	**: No data available.**
Melting point [°C]	**: No data available.**
Decomposition point [°C]	**: No data available.**
Critical temperature [°C]	**: No data available.**
Auto-ignition temperature [°C]	**: No data available.**
Flammability (solid, gas)	**: No data available.**
Flash point [°C]	**: No data available.**
Initial boiling point [°C]	**: No data available.**
Final boiling point [°C]	**: No data available.**
Evaporation rate	**: No data available.**

Section 9: Physical and Chemical Properties (Continued)

Vapour pressure [20°C]	**: No data available.**
Vapour density	**: No data available.**
Density [g/cm3]	**: No data available.**
Relative density, liquid (water=1)	**: No data available.**
Solubility in water	**: No data available.**
Log Pow octanol / water at 20°C	**: No data available.**
Viscosity at 40°C [mm2/s]	**: No data available.**

Other safety information
Bulk density **: 800 kg/m3**

Section 10: Stability and Reactivity Data

Reactivity: Not established.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Not established.

Conditions to avoid: No data available.

Incompatible materials
Alkali metals, Powdered metals, Reducing agents, Aluminum, Hydrogen sulfide gas.

Hazardous decomposition products
Other decomposition products-no data available.

Section 11: Toxicological Information

Information on toxicological effects
Acute toxicity: no data available.

Skin corrosion/irritation: No data available.

Serious eye damage/eye irritation: No data available.

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Section 11: Toxicological Information (Continued)

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.

Additional Information:
RTECS: Not available
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information

Toxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment:
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: Very toxic to aquatic life.

Section 13: Disposal Considerations

Waste treatment methods

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 : OXIDIZING SOLID, N.O.S.(Copper chromite)
UN N° : 1479
ADR - Class : 5.1
ADR - Group : II

Sea transport (IMDG) [English only]

Proper shipping name : OXIDIZING SOLID, N.O.S.(Copper chromite)
UN N° : 1479
IMO-IMDG - Class or division: 5.1
IMO-IMDG - Packing group : II

Air transport (ICAO-IATA) [English only]

Proper shipping name : OXIDIZING SOLID, N.O.S.(Copper chromite)
UN N° : 1479
IATA - Class or division : 5.1
IATA - Packing group : II

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

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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