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

CHROMIUM TRIOXIDE SOLUTION

MSDS CAS:

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: CHROMIUM TRIOXIDE SOLUTION
CAS#:
Chemical Name: CHROMIUM TRIOXIDE SOLUTION
Chemical Formula:

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
Water	7732-18-5	50-75
Chromium trioxide (CrO3)	1333-82-0	25-50

Toxicological Data on Ingredients: Chromium trioxide LD50: Not available. LC50: Not available.

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Section 3: Hazards Identification

OSHA Regulatory Status This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity – Oral: Category 4
Acute toxicity - Inhalation (Dusts/Mists): Category 4
Skin corrosion/irritation Category: 1 Sub-category A
Serious eye damage/eye irritation: Category 1
Respiratory sensitization: Category 1
Skin sensitization: Category 1
Germ cell mutagenicity: Category 1B
Carcinogenicity: Category 1A
Reproductive toxicity: Category 2
Specific target organ toxicity (repeated exposure): Category 1

Precautionary Statements – Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.

Precautionary Statements – Response:

Immediately call a POISON CENTER or doctor/physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Immediately call a POISON CENTER or doctor/physician.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

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Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for at least 15 minutes, separating eyelids occasionally. Remove contact lenses if present. Get immediate medical attention.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Immediate medical attention is required.

Serious Skin Contact: Not available.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Serious Inhalation: Not available.

Ingestion: Rinse mouth. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Immediate medical attention is required.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Suitable extinguishing media:
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media:
Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical:
Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products:
On decomposition product releases oxygen which may intensify fire. Chromium oxides.

Protective equipment and precautions for firefighters:
Firefighters should wear self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode.

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Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautions :

Evacuate personnel to safe areas. Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas.

Environmental precautions :

Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment :

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up:

Neutralize acid prior to using absorbent materials. Absorb spill with inert material, scoop up and containerize for disposal.

Section 7: Handling and Storage

Precautions for safe handling: Use personal protective equipment as required Handle in accordance with good industrial hygiene and safety practice.

Storage Conditions Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a dry, cool and well-ventilated place. Keep/store only in original container.

Incompatible materials Strong bases. Strong reducing agents. Aldehydes. Metals. Alcohols. Combustible material.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Emergency showers, eyewash stations, ventilation systems.

Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

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Section 8: Exposure Controls/Personal Protection (Continued)

Personal Protection in Case of a Large Spill:

Eye/face protection Tight sealing safety goggles.

Skin and body protection Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

Physical state and appearance	**: Liquid.**
Odor	**: Not available.**
Taste	**: Not available.**
Molecular Weight	**: Not available.**
Color	**: Dark brown.**
pH (1% soln/water)	**: Not available.**
Boiling Point	**: Not available.**
Melting Point	**: Not available.**
Critical Temperature	**: Not available.**
Specific Gravity	**: Not available.**
Vapor Pressure	**: Not applicable.**
Vapor Density	**: Not available.**
Volatility	**: Not available.**
Odor Threshold	**: Not available.**
Water/Oil Dist. Coeff.	**: Not available.**
Ionicity (in Water)	**: Not available.**
Dispersion Properties	**: Not available.**
Solubility	**: Soluble in Water.**

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Section 10: Stability and Reactivity Data

Stability : Stable under recommended storage conditions.
Possibility of Hazardous Reactions: None under normal processing.
Conditions to avoid : thermal decomposition, do not overheat. Extremes of temperature and direct sunlight.
Incompatible materials : Strong bases. Strong reducing agents. Aldehydes. Metals. Alcohols. Combustible material.
Hazardous Decomposition Products: Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Oxygen. Chromium oxides.

Section 11: Toxicological Information

Inhalation: May cause sensitization by inhalation. Harmful by inhalation.
Eye contact: Risk of serious damage to eyes.
Skin contact: Contact causes severe skin irritation and burns. May cause an allergic skin reaction.
Ingestion: Harmful if swallowed.

Delayed and immediate: effects as well as chronic effects from short and long-term exposure:
Skin corrosion/irritation: Causes severe burns.
Serious eye damage/eye irritation: Causes burns and risk of serious eye damage. May cause blindness.
Sensitization: May cause sensitization by inhalation. May cause sensitization by skin contact.
Germ cell mutagenicity: Contains a known or suspected mutagen.
Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen

Section 12: Ecological Information

Ecotoxicity:
Not available.
BOD5 and COD:
Not available.
Products of Biodegradation:
Not available.
Toxicity of the Products of Biodegradation:
Not available.
Special Remarks on the Products of Biodegradation: Not available.

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Section 13: Disposal Considerations

Waste Disposal: Disposal should be in accordance with applicable regional, national and local laws and regulations. Do not reuse container. Emptied containers may contain residue. Continue to follow label warnings after container is emptied.

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name : Chromic acid solution
UN N° : 1755
ADR - Class : 8

Sea transport (IMDG) [English only]

Proper shipping name : Chromic acid solution
UN N° : 1755
IMO-IMDG - Class or division : 8
IMO-IMDG - Packing group : II

Air transport (ICAO-IATA) [English only]

Proper shipping name : Chromic acid solution
UN N° : 1755
IATA - Class or division : 8
IATA - Packing group : II

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Section 15: Other Regulatory Information

US Federal Regulations:

SARA 313 Section:

313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name SARA 313 -	**Threshold Values %**
Chromium trioxide (CrO3) - 1333-82-0	**0.1**

CWA (Clean Water Act): This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA:

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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