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

MANGANESE NITRATE SOLUTION
45-50% Solution in Dilute Nitric Acid
MSDS CAS: 10377-66-9

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: MANGANESE NITRATE SOLUTION (45-50% Solution in Dilute Nitric Acid)
CAS#: 10377-66-9
Chemical Name: MANGANESE NITRATE SOLUTION (45-50% Solution in Dilute Nitric Acid)
Chemical Formula: Not available.

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

Substance / Preparation: Preparation.
Hazardous component(s): This product is hazardous.

SUBSTANCE NAME	CAS NO.	CONTENTS
MANGANESE NITRATE PURE		> 99 %
Nitric acid	7697-37-2	> 5 < 10 %
Water	7732-18-5	> 5 < 10 %

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Section 3: Hazards Identification

Classification of the substance or mixture
Classification EC 67/548 or EC 1999/45
Classification : C; R34

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)
Health hazards: Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

Section 4: First Aid Measures

Description of first aid measures:

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor.

Skin contact: Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor.

Eye contact: Immediately call a POISON CENTER or doctor. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.

Ingestion: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed:

Symptoms relating to use: Causes severe skin burns and eye damage.

Indication of any immediate medical attention and special treatment needed:

General information: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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Section 5: Fire and Explosion Data

Extinguishing media:

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.
Surrounding fires : Use water spray or fog for cooling exposed containers.

Special hazards arising from the substance or mixture:
Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

Advice for fire-fighters:
Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.
Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:
For emergency responders :Equip cleanup crew with proper protection.
:Ventilate area.

For non-emergency personnel :Evacuate unnecessary personnel.

Environmental precautions
Environmental precautions :Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

Methods and material for containment and cleaning up:
Clean up methods : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Section 7: Handling and Storage

Precautions for safe handling

Handling: **Do not breathe dust, fume, gas, mist, vapours, spray. Wash thoroughly after handling. Wash contaminated clothing before reuse.**

Technical protective measures: **Provide good ventilation in process area to prevent formation of vapour.**

Conditions for safe storage, including any incompatibilities:

Storage : **Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.**

Storage - away from : **Strong bases. Strong acids. Sources of ignition. Direct sunlight.**

Section 8: Exposure Controls/Personal Protection

Exposure controls:

Personal protection: **Avoid all unnecessary exposure.**

- **Respiratory protection:** **Wear approved mask.**
- **Hand protection:** **Wear protective gloves.**
- **Skin protection:** **Wear suitable protective clothing.**
- **Eye protection:** **Chemical goggles or safety glasses.**
- **Others:** **When using, do not eat, drink or smoke.**

Control parameters:

Occupational Exposure Limits: No data available.

Section 9: Physical and Chemical Properties

Physical state and appearance	**: Liquid.**
Odor	**: Characteristic.**
Taste	**: Not available.**
Molecular Weight	**: Not available.**
Color	**: Colorless.**
pH (1% soln/water)	**: Not available.**
Boiling Point	**: 100°C.**

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Section 9: Physical and Chemical Properties (Continued)

Melting Point	**: Not available.**
Critical Temperature	**: Not available.**
Specific Gravity	**: Not available.**
Vapor Pressure mm/Hg	**: 17.535 mm of Hg (@ 2**
Vapor Density	**: 0,62**
Volatility	**: Not available.**
Odor Threshold	**: Not available.**
Water/Oil Dist. Coeff.	**: Not available.**
Ionicity (in Water)	**: Not available.**
Dispersion Properties	**: Not available.**
Solubility	**: Not available.**

Section 10: Stability and Reactivity Data

Stability: **The product is stable.**

Instability Temperature: **Not available.**

Conditions to avoid: **Direct sunlight. Extremely high or low temperatures.**

Incompatibility with various substances: **Not available.**

Materials to avoid: **Strong acids. Strong bases.**

Special Remarks on Reactivity: **Not available.**

Special Remarks on Corrosivity: **Not available.**

Hazardous decomposition products: **Fumes. Carbon monoxide. Carbon dioxide.**
Thermal decomposition generates : Corrosive vapours.

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Section 11: Toxicological Information

Information on toxicological effects:

Toxicity information: **The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.**

Acute toxicity:

• Inhalation: Based on available data, the classification criteria are not met.
• Dermal: Based on available data, the classification criteria are not met.
• Ingestion: Based on available data, the classification criteria are not met.

Irritation: Causes serious eye irritation.
Causes skin irritation.
Corrosion: Causes severe skin burns and eye damage.
Sensitization: Based on available data, the classification criteria are not met.
Mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Toxic for reproduction: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.
STOT-repeated exposure: Based on available data, the classification criteria are not met.
Aspiration hazard: Based on available data, the classification criteria are not met.

Section 12: Ecological Information

Toxicity information: **The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.**

BOD5 and COD: **Not available.**

Persistence - degradability: **Biodegradable.**

Bioaccumulative potential: **Not established.**

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.**

Environmental precautions: **Avoid release to the environment.**

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Section 13: Disposal Considerations

Waste Disposal: **Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.**

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
UN N° : 3264
ADR - Class : 8
Labelling – Transport : 8 : Corrosive substance.

Sea transport (IMDG) [English only]

Proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
UN N° : 3264
IMO-IMDG - Class or division : 8 : Corrosive substance.
IMO-IMDG - Packing group : III

Air transport (ICAO-IATA) [English only]

Proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
UN N° : 3264
IATA - Class or division : 8 : Corrosive substance.
IATA - Packing group : III

Section 15: Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:
Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.

Section 15: Other Regulatory Information (Continued)

REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.
REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

Chemical Safety Assessment:
Chemical Safety Assessment : It has not been carried out.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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