

## **MATERIAL SAFETY DATA SHEET**

### **AMMONIUM CERIC NITRATE SOLUTION**

**0.05 N Volumetric Solution (N/20)**

**MSDS CAS:**

#### **Section 1: Chemical Product and Company Identification**

##### **Section 1: Chemical Product**

**Product Name:** AMMONIUM CERIC NITRATE 0.05 N Volumetric solution (N/20)

**CAS#:** -

**Synonym:**

**Chemical Name:** Not available.

**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  
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#### **Section 2: Composition and Information on Ingredients**

**Substance / Preparation:** Preparation.

**Hazardous component(s):** This product is hazardous.

## Section 2: Composition and Information on Ingredients (Continued)

Component	Contents	CAS-No.	ECNo	Annex No	REA CH Ref.	Classification
AMMONIUM CERIC NITRATE 98%	> 1 < 5 %	16774-21-3	-	-	-	Xn; R22 Xi; R36 ----- Acute Tox. 4 (oral) _ H302
Nitric acid	> 5 < 10 %	7697-37-2	231-714-2	007-004-00-1	-	O; R8 C; R35 ----- Ox. Liq. 1 _ H271 Skin Corr. 1A _ H314
Water	> 75 < 99 %	7732-18-5	231-791-2	-----	-----	Not classified (DSD/DPD) ----- Not classified (GHS)

## 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 1A - Danger (CLP: Skin Corr. 1A) H314

### Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s): C: Corrosive  
R Phrase(s): R34: Causes burns.  
S Phrase(s): S24: Avoid contact with skin.  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28: After contact with skin, wash immediately with

## Section 3: Hazards Identification (Continued)

**S35:** This material and its container must be disposed of in a safe way.

**S36/37/39:** Wear suitable protective clothing, gloves and eye/face Protection.

**S45:** In case of accident or if you feel unwell, seek medical advice immediately.

**S59:** Refer to manufacturer/supplier for information on recovery/recycling.

Contains: Water -

Nitric acid - AMMONIUM CERIC NITRATE 98%

## Section 4: First Aid Measures

### Description of first aid measures

**Inhalation:** Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing.

**Skin contact:** Specific treatment (see on this label). Wash with plenty of soap and water. If skin irritation occurs: Remove/Take off immediately all contaminated clothing.

Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

**Eye contact:** Get medical advice. If eye irritation persists: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.

Immediately call a POISON CENTER or doctor.

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

### Most important symptoms and effects, both acute and delayed

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

Causes serious eye irritation.

Causes skin irritation.

### Indication of any immediate medical attention and special treatment needed

**General information:** Never give anything by mouth to an unconscious

## 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.  
Thermal decomposition generates : Corrosive vapours.

### 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

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

### Methods and materials for containment and cleaning up

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

### Reference to other sections

See section 8. Exposure controls/personal protection

## Section 7: Handling and Storage

### Precautions for safe handling

**Handling:** Wash thoroughly after handling. Avoid contact during pregnancy or while nursing. Do not breathe dust, fume, gas, mist, vapours, and spray. Wash thoroughly after handling.

**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 regulation:** Comply with applicable regulations.

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

**Specific end use(s):** None.

## Section 8: Exposure Controls/Personal Protection

### Exposure controls

#### Personal protection

**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 face shield.
- **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 at 20 °C	: Liquid.
Colour	: Colorless
Odour	: Characteristic.
Odour threshold	: 0.29 ppm

## Section 9: Physical and Chemical Properties (Continued)

pH value	: No data available.
Melting point [°C]	: -41.6°C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: No data available.
Auto-ignition temperature [°C]	: No data available.
Flammability (solid, gas)	: N/A
Flash point [°C]	: No data available.
Boiling point [°C]	: 83°C
Initial boiling point [°C]	: No data available.
Final boiling point [°C]	: No data available.
Evaporation rate	: N/A
Vapour pressure [20°C]	: No data available.
Vapour pressure mm/Hg	: N/A
Vapour density	: 2, 3
Density [g/cm <sup>3</sup> ]	: 1,02
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Soluble in water
Solubility in water	: No data available.
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm <sup>2</sup> /s]	: No data available.

## 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:** Direct sunlight. Extremely high or low temperatures.

**Incompatible materials:** Strong acids. Strong bases.

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

## Section 11: Toxicological Information

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

## Section 11: Toxicological Information (Continued)

### 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.
- Corrosion:** Causes severe skin burns and eye damage.
- Irritation:** Causes serious eye irritation. Causes skin irritation.
- 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.
- Persistence - degradability:** Biodegradable.
- Bioaccumulative potential:** Not established.
- Mobility in soil:** Not established.
- 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.

## Section 13: Disposal Considerations

### Waste treatment methods

**General:** 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 : NITRIC ACID, other than red fuming, with > 20% but < 65% acid nitric  
UN N° : 2031  
H.I. nr : 80  
ADR – Class : 8

### Sea transport (IMDG) [English only]

Proper shipping name : NITRIC ACID, other than red fuming, with > 20% but < 65% acid nitric  
UN N° : 2031  
IMO-IMDG - Class or division: 8: Corrosive substance.  
IMO-IMDG - Packing group: II

### Air transport (ICAO-IATA) [English only]

Proper shipping name : NITRIC ACID, other than red fuming, with > 20% but < 65% acid nitric  
UN N° : 2031  
IATA - Class or division: 8: Corrosive substance.  
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  
Ensure all national/local regulations are observed.

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

### Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

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## **Section 16 - Additional Information**

### ***Disclaimer:***

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