

MATERIAL SAFETY DATA SHEET

CALCIUM AAS STANDARD SOLUTION

1000mg/l Ca In Diluted HNO₃

MSDS CAS:

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name : CADMIUM AAS STANDARD SOLUTION 1000mg/L Ca IN DILUTED HNO₃
CAS# : Not available.
Synonym : Not available.
Chemical Name : Not available.
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.

Section 2: Composition and Information on Ingredients (Continued)

Substance name	Contents	CAS No	EC No	Annex No	REAC H Ref	Classification
CALCIUM NITRATE EXTRA PURE (TETRAHYDRATE) 98%	> 0.1 < 1 %	13477- 34-4	-----	-----	----	Xi; R36 ----- Not classified (GHS)
Nitric acid	> 1 < 5 %	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

Symbol(s)	: Xi : Irritant
R Phrase(s)	: R36/38 : Irritating to eyes and skin. : R45 : May cause cancer.
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. S35 : This material and its container must be disposed of in a safe way. S36/37 : Wear suitable protective clothing and gloves. S51 : Use only in well-ventilated areas. S59 : Refer to manufacturer/supplier for information on recovery/recycling.
Contains	: Water - Nitric acid - CALCIUM NITRATE EXTRA PURE (TETRAHYDRATE) 98%
<u>Labelling Regulation EC 1272/2008 (CLP)</u>	
Signal words	: Warning
Hazard statements	: H319 : Causes serious eye irritation.

Section 3: Hazards Identification (Continued)

H315 : Causes skin irritation.

Precautionary statements

- Prevention** : P280: Wear protective gloves, protective clothing, eye protection, face protection.
P264: Wash thoroughly after handling..
- Response** : P302+P352: IF ON SKIN : Wash with plenty of soap and water.
P332+P313: If skin irritation occurs : Get medical advice.
P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P363: Wash contaminated clothing before reuse.
- Storage** : P405: Store locked up.
- Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- Contains** : CALCIUM NITRATE EXTRA PURE (TETRAHYDRATE) 98% - Nitric acid -Water
- 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

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

Skin Contact : Wash contaminated clothing before reuse. Wash with plenty of soap and water. If skin irritation occurs : Get medical advice. Specific treatment (see on this label).

Inhalation : Assure fresh air breathing. Allow the victim to rest.

Ingestion : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

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

Symptoms relating to use : Causes serious eye irritation. Causes skin irritation.

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 :

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 for cleaning up : 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 : Wash thoroughly after handling. Wash thoroughly after handling. Wash thoroughly after handling.

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

Section 7: Handling and Storage (Continued)

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.

Specific end use(s) : None.

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

Information on basic physical and chemical properties :

Physical state at 20 °C	: Liquid.
Colour	: Colorless
Odour	: Characteristic.
Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: No data available.
Decomposition point [°C]	: N/A
Critical temperature [°C]	: No data available.
Auto-ignition temperature [°C]	: No data available.

Section 9: Physical and Chemical Properties (Continued)

Flammability (solid, gas)	: N/A
Flash point [°C]	: No data available.
Boiling point [°C]	: N/A
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	: N/A
Density [g/cm ³]	: 1,02
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: N/A
Solubility in water	: No data available.
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm ² /s]	: No data available.

Other information :

Explosive properties	: N/A
Explosion limits - upper [%]	: No data available.
Explosion limits - lower [%]	: No data available.
Oxidising properties	: No data available.

Section 10: Stability and Reactivity Data

Reactivity	: Not established.
Chemical stability	: Stable under recommended storage conditions.
Hazardous reactions	: Not established.
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.
Materials to avoid	: Strong acids. Strong bases.
Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide.

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.

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 : Based on available data, the classification criteria are not met.
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 : May cause cancer.
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.

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name	: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
UN N°	: 3264
H.I. nr	: 80
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.

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.

OXFORD LAB FINE CHEM LLP

ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990
Email: sales@oxfordlabchem.com /
info@oxfordlabchem.com
Web: www.oxfordlabchem.com

Oxford
Range of
Laboratory Chemicals

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

Oxford Lab Fine Chem LLP makes no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Oxford Lab Fine Chem LLP will not be responsible for damages resulting from use of or reliance upon this information.