

MATERIAL SAFETY DATA SHEET

CALCIUM AAS STANDARD SOLUTION

1000mg/l Ca In Diluted HCl

MSDS CAS:

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name : CADMIUM AAS STANDARD SOLUTION 1000mg/L Ca IN DILUTED HCl
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,
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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)

Substance name	Contents	CAS No	EC No	Annex No	REAC H Ref	Classification
CALCIUM CHLORIDE (DIHYDRATE) EXTRA PURE	> 0.01 < 1 %	10035- 04-8	-----	-----	----	Xi; R36 ----- Eye irrit 2 _ H319
Hydrochloric acid	> 1 < 5 %	7647-01- 0	231- 595-7	017-002- 01-X	----	C; R34 Xi; R37 ----- Skin Corr. 1B _ H314 STOT SE 3 _ H335
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%

Labelling Regulation EC 1272/2008 (CLP)

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 : HYDROCHLORIC ACID.
UN N° : 1789
H.I. nr : 80
ADR - Class : 8
Labelling - Transport : 8 : Corrosive substance.

Sea transport (IMDG) [English only]

Proper shipping name : HYDROCHLORIC ACID.

UN N° : 1789
IMO-IMDG - Class or division : 8 : Corrosive substance.
IMO-IMDG - Packing group : III

Air transport (ICAO-IATA) [English only]

Proper shipping name : HYDROCHLORIC ACID.

UN N° : 1789
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

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Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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