

# **MATERIAL SAFETY DATA SHEET (SDS/MSDS)**

**CALCIUM AAS STANDARD SOLUTION  
1000MG/L CA IN DILUTED HNO<sub>3</sub>**

CAS-No.: NA

Product Code: 00617

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**CAS-No.: NA**

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Product form : Mixture  
Trade name : Calcium Aas Standard Solution 1000MG/L CA In Diluted HNO<sub>3</sub>

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**1.2.1. Relevant identified uses**

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

**1.2.2. Uses advised against**

No additional information available

**1.3. Details of the supplier of the safety data sheet**

Company : Chemnovo Synthesis Pvt Ltd.  
N-226 Near Kumbhavali Naka  
Tarapur MIDC, Boisar-401 506  
Palghar, Maharashtra  
Telephone : +91 7400096089  
Email: export@chemnovo.in

**1.4. Emergency telephone number**

Emergency number : + 91 7400096089 (9:00am - 6:00 pm)

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Corrosive to metals, H290

Category 1

Skin corrosion/irritation, H315

Category 2

Serious eye damage/eye H319

irritation, Category 2

Full text of classification categories and H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

**2.2. Label elements**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



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		GHS05
Signal word (CLP)	:	Warning
Hazard statements (CLP)	:	H290 - May be corrosive to metals H315 - Causes skin irritation H319 - Causes serious eye irritation
Precautionary statements (CLP)	:	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

**2.3. Other hazards**

No additional information available

**SECTION 3: Composition/information on ingredients**

**3.1. Substance**

Not applicable

**3.2. Mixture**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	75 - 99	Not classified
Nitric acid	(CAS No) 7697-37-2 (EC no) 231-714-2	1 - 5	Ox. Liq. 1, H271 Skin Corr. 1A, H314
Calcium Nitrate Extra Pure (Tetrahydrate) 98%	(CAS No) 13477-34-4	0.1 - 1	Not classified

Full text of H-statements: see section 16

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

First-aid measures after inhalation	:	Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	:	Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get medical advice/attention.
First-aid measures after eye contact	:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	:	Rinse mouth. Do not induce vomiting. Get medical advice/attention.

**4.2. Most important symptoms and effects, both acute and delayed**

Symptoms/injuries after skin contact	:	Causes skin irritation.
Symptoms/injuries after eye contact	:	Causes serious eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed**

No additional information available

#### **SECTION 5: Firefighting measures**

##### **5.1. Extinguishing media**

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.  
Unsuitable extinguishing media : Do not use extinguishing media containing water.

##### **5.2. Special hazards arising from the substance or mixture**

No additional information available

##### **5.3. Advice for firefighter**

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

#### **SECTION 6: Accidental release measures**

##### **6.1. Personal precautions, protective equipment and emergency procedures**

###### **6.1.1. For non-emergency personnel**

Emergency procedures : Evacuate unnecessary personnel.

###### **6.1.2. For emergency responders**

Protective equipment : Use personal protective equipment as required.

##### **6.2. Environmental precautions**

Avoid release to the environment.

##### **6.3. Methods and material for containment and cleaning up**

Methods for cleaning up : On land, sweep or shovel into suitable containers. Collect spillage.

##### **6.4. Reference to other sections**

No additional information available

#### **SECTION 7: Handling and storage**

##### **7.1. Precautions for safe handling**

Additional hazards when processed : May be corrosive to metals.  
Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour.  
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work

##### **7.2. Conditions for safe storage, including any incompatibilities**

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.  
Incompatible materials : Metals.

##### **7.3. Specific end use(s)**

No additional information available

#### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Hand protection	:	Protective gloves
Eye protection	:	Chemical goggles or safety glasses
Skin and body protection	:	Wear suitable protective clothing
Respiratory protection	:	Wear respiratory protection.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Colourless.
Odour	:	No data available
Odour threshold	:	No data available
pH	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Density	:	1.02 g/cm <sup>3</sup>
Solubility	:	No data available
Log Pow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No additional information available

**10.4. Conditions to avoid**

No additional information available

**10.5. Incompatible materials**

No additional information available

**10.6. Hazardous decomposition products**

No additional information available

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity	:	Not classified
Skin corrosion/irritation	:	Causes skin irritation.
Serious eye damage/irritation	:	Causes serious eye irritation.
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified

**SECTION 12: Ecological information**

**12.1. Toxicity**

No additional information available

**12.2. Persistence and degradability**

No additional information available

**12.3. Bioaccumulative potential**

No additional information available

**12.4. Mobility in soil**

No additional information available

**12.5. Results of PBT and vPvB assessment**

No additional information available

**12.6. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

No additional information available

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**SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / AND

**14.1. UN number**

UN-No. (ADR)	:	3264
UN-No. (IMDG)	:	3264
UN-No. (IATA)	:	3264
UN-No. (ADN)	:	Not regulated
UN-No. (RID)	:	Not regulated

**14.2. UN proper shipping name**

Proper Shipping Name (ADR)	:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Proper Shipping Name (IMDG)	:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Proper Shipping Name (IATA)	:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Proper Shipping Name (ADN)	:	Not regulated
Proper Shipping Name (RID)	:	Not regulated
Transport document description (ADR)	:	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III, (E)
Transport document description (IMDG)	:	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III, MARINE POLLUTANT
Transport document description (IATA)	:	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III

**14.3. Transport hazard class(es)**

ADR

Transport hazard class(es) (ADR)	:	8
Danger labels (ADR)	:	8



IMDG

Transport hazard class(es) (IMDG)	:	8
Danger labels (IMDG)	:	8



IATA

Transport hazard class(es) (IATA)	:	8
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Hazard labels (IATA) : 8



AND

Transport hazard class(es) (ADN) : Not regulated

RID

Transport hazard class(es) (RID) : Not regulated

**14.4. Packing group**

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : Not regulated

Packing group (RID) : Not regulated

**14.5. Environmental hazards**

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

**14.6. Special precautions for user**

- Overland transport

Classification code (ADR) : C1

Special provision (ADR) : 274

Limited quantities (ADR) : 5L

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : Mp19

Portable tank and bulk container : T7

instructions (ADR)

Portable tank and bulk container special provisions (ADR) : TP1, Tp28

Tank code (ADR) : L4BN

Vehicle for tank carriage : AT

Transport category (ADR) : 3

Special provisions for carriage - Packages (ADR) : V12

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Hazard identification number (Kemler No.)	:	80		
Orange plates	:	<table border="1"><tr><td><b>80</b></td></tr><tr><td><b>3264</b></td></tr></table>	<b>80</b>	<b>3264</b>
<b>80</b>				
<b>3264</b>				
Tunnel restriction code (ADR)	:	E		
EAC code	:	2X		
APP code	:	B		
- Transport by sea				
Special provision (IMDG)	:	223, 274		
Limited quantities (IMDG)	:	5 L		
Excepted quantities (IMDG)	:	E1		
Packing instructions (IMDG)	:	P001, Lp01		
IBC packing instructions (IMDG)	:	IBC03		
Tank instructions (IMDG)	:	T7		
Tank special provisions (IMDG)	:	TP1, Tp28		
EmS-No. (Fire)	:	F-A		
EmS-No. (Spillage)	:	S-B		
Stowage category (IMDG)	:	A		
Stowage and handling (IMDG)	:	Sw2		
MFAG-No	:	154		
- Air transport				
PCA Excepted quantities (IATA)	:	E1		
PCA Limited quantities (IATA)	:	Y841		
PCA limited quantity max net quantity (IATA)	:	1L		
PCA packing instructions (IATA)	:	852		
PCA max net quantity (IATA)	:	5L		
CAO packing instructions (IATA)	:	856		
CAO max net quantity (IATA)	:	60L		
Special provision (IATA)	:	A3		
ERG code (IATA)	:	8L		
- Inland waterway transport				
Not regulated				
- Rail transport				
Not regulated				

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.1.1. EU-Regulations**

Contains no substances with Annex XVII restrictions

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

**15.1.2. National regulations**

**Germany**

AwSV/VwVwS Annex reference : Water hazard class (WGK) 3, strongly hazardous to water  
(Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

**Denmark**

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

**15.2. Chemical safety assessment**

No additional information available

**SECTION 16: Other information**

Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Ox. Liq. 1	Oxidising Liquids, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H271	May cause fire or explosion; strong oxidiser
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation

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**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Chemnovo Synthesis Pvt Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.chemnovo.in](http://www.chemnovo.in) for additional terms and conditions of sale.

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