

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

CALCIUM METAL GRANULES 98%

CAS-No.: 7440-70-2

Product Code: 0653A

Molecular Formula: Ca

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

1.1. Product identifier

Product form	:	Substance
Trade name	:	Calcium Metal Granules 98%
EC-No.	:	231-179-5
CAS No	:	7440-70-2

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial For professional use only

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]

Substances and Mixtures H261

which, in contact with
water, emit flammable
gases, Category 2

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

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]
F; R15

Full text of R-phrases: 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) :

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

CALCIUM METAL GRANULES 98%

CAS-No.: 7440-70-2



GHS02

Signal word (CLP)	:	Danger
Hazard statements (CLP)	:	H261 - In contact with water releases flammable gases.
Precautionary statements (CLP)	:	P231+P232 - Handle under inert gas. Protect from moisture. P422 - Store contents under inert gas

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name	:	Calcium Metal Extra Pure
CAS-No.	:	7440-70-2
EC-No.	:	231-179-5

Full text of R- and H-statements: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	:	Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	:	Wash skin with plenty of water.
First-aid measures after eye contact	:	Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	:	Rinse mouth out with water.

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	:	Carbon dioxide. Dry powder. Foam.
Unsuitable extinguishing media	:	dry chemical powder

5.2. Special hazards arising from the substance or mixture

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

CALCIUM METAL GRANULES 98%

CAS-No.: 7440-70-2

Fire hazard : In contact with water releases flammable gases which may ignite spontaneously.

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.

Emergency procedures : Ventilate area

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Additional hazards when processed : Do not allow contact with water.

Precautions for safe handling : Protect from moisture. Handle under inert gas.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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 : Keep away from any possible contact with water, because of violent reaction and possible flash fire.

Precautions for safe handling : Protect from moisture. Handle under inert gas. Do not breathe dust/fume/gas/mist/vapours/spray.

Hygiene measures : Wash ... thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry place. Protect from moisture.

Incompatible materials : Do not allow contact with water.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

CALCIUM METAL GRANULES 98%

CAS-No.: 7440-70-2

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	:	Solid
Molecular mass	:	40 g/mol
Colour	:	Silvery grey.
Odour	:	odourless.
Odour threshold	:	No data available
pH	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	850 °C
Freezing point	:	No data available
Boiling point	:	1440 °C
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	In contact with water releases flammable gases which may ignite spontaneously.
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Density	:	1.54 g/cm ³
Solubility	:	Water: Reacts with water with evolution of hydrogen
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.

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

CALCIUM METAL GRANULES 98%

CAS-No.: 7440-70-2

10.3. Possibility of hazardous reactions

In contact with water releases flammable gases which may ignite spontaneously

10.4. Conditions to avoid

Air contact. Moisture. Water, humidity

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	:	Not classified
Serious eye damage/irritation	:	Not classified
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

Product/Packaging disposal recommendations	:	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
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MATERIAL SAFETY DATA SHEET (SDS/MSDS)

CALCIUM METAL GRANULES 98%

CAS-No.: 7440-70-2

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR)	:	1401
UN-No. (IMDG)	:	1401
UN-No.(IATA)	:	1401
UN-No.(AND)	:	1401
UN-No. (RID)	:	1401

14.2. UN proper shipping name

Proper Shipping Name (ADR)	:	CALCIUM
Proper Shipping Name (IMDG)	:	CALCIUM
Proper Shipping Name (IATA)	:	Calcium
Proper Shipping Name (ADN)	:	CALCIUM
Proper Shipping Name (RID)	:	CALCIUM
Transport document description (ADR):		UN 1401 CALCIUM, 4.3, II, (D/E)
Transport document description (IMDG)		UN 1401 CALCIUM, 4.3, II
Transport document description (IATA) :		UN 1401 Calcium, 4.3, II
Transport document description (ADN) :		UN 1401 CALCIUM, 4.3, II
Transport document description (RID) :		UN 1401 CALCIUM, 4.3, II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	:	4.3
Danger labels (ADR)	:	4.3
	:	



IMDG

Transport hazard class(es) (IMDG)	:	4.3
Danger labels (IMDG)	:	4.3
	:	



MATERIAL SAFETY DATA SHEET (SDS/MSDS)

CALCIUM METAL GRANULES 98%

CAS-No.: 7440-70-2

IATA

Transport hazard class(es) (IATA) : 4.3

Hazard labels (IATA) : 4.3

:



AND

Transport hazard class(es) (ADN) : 4.3

Danger labels (ADN) : 4.3

:



RID

Transport hazard class(es) (RID) : 4.3

Danger labels (RID) : 4.3

:



14.4. Packing group

Packing group (ADR) : II

Packing group (IMDG) : II

Packing group (IATA) : II

Packing group (ADN) : II

Packing group (RID) : II

MATERIAL SAFETY DATA SHEET (SDS/MSDS)**CALCIUM METAL GRANULES 98%****CAS-No.: 7440-70-2****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)	:	W2
Limited quantities (ADR)	:	500g
Excepted quantities (ADR)	:	E2
Packing instructions (ADR)	:	P410, IBC07
Mixed packing provisions (ADR)	:	Mp14
Portable tank and bulk container instructions (ADR)	:	T3

Portable tank and bulk container special

provisions (ADR)	:	Tp33
Tank code (ADR)	:	SGAN
Vehicle for tank carriage	:	AT
Transport category (ADR)	:	2
Special provisions for carriage - Packages (ADR)	:	V1
Special provisions for carriage - Loading, unloading and handling (ADR)	:	Cv23

Hazard identification number (Kemler No.)

Orange plates

423**1401**

Tunnel restriction code (ADR)	:	D/E
EAC code	:	4W
- Transport by sea	:	
Limited quantities (IMDG)	:	500g
Excepted quantities (IMDG)	:	E2
Packing instructions (IMDG)	:	P410
Special packing provisions (IMDG)	:	PP31, Pp40
IBC packing instructions (IMDG)	:	IBC07
IBC special provisions (IMDG)	:	B2
Tank instructions (IMDG)	:	T3
Tank special provisions (IMDG)	:	Tp33
EmS-No. (Fire)	:	F-G
EmS-No. (Spillage)	:	S-O
Stowage category (IMDG)	:	E

MATERIAL SAFETY DATA SHEET (SDS/MSDS)**CALCIUM METAL GRANULES 98%****CAS-No.: 7440-70-2**

Stowage and handling (IMDG)	:	H1
Segregation (IMDG)	:	SG35, Sg26
MFAG-No	:	138
- Air transport		
PCA Excepted quantities (IATA)	:	E2
PCA Limited quantities (IATA)	:	Y475
PCA limited quantity max net quantity (IATA)	:	5kg
PCA packing instructions (IATA)	:	484
PCA max net quantity (IATA)	:	15kg
CAO packing instructions (IATA)	:	490
CAO max net quantity (IATA)	:	50kg
ERG code (IATA)	:	4W
- Inland waterway transport		
Classification code (ADN)	:	W2
Limited quantities (ADN)	:	500g
Excepted quantities (ADN)	:	E2
Equipment required (ADN)	:	PP, EX, A
Ventilation (ADN)	:	Ve01
Provisions for handling and stowage of the cargo (ADN)	:	Ha08
Number of blue cones/lights (ADN)	:	0
- Rail transport		
Classification code (RID)	:	W2
Limited quantities (RID)	:	500g
Excepted quantities (RID)	:	E2
Packing instructions (RID)	:	P410, IBC07
Mixed packing provisions (RID)	:	Mp14
Portable tank and bulk container instructions (RID)	:	T3
Portable tank and bulk container special provisions (RID)	:	Tp33
Tank codes for RID tanks (RID)	:	SGAN
Transport category (RID)	:	2
Special provisions for carriage – Packages (RID)	:	W1
Special provisions for carriage – Loading, unloading and handling (RID)	:	Cw23
Colis express (express parcels) (RID)	:	Ce10
Hazard identification number (RID)	:	423

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

Not applicable

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CALCIUM METAL GRANULES 98%

CAS-No.: 7440-70-2

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Calcium Metal Granules 98% is not on the REACH Candidate List

Calcium Metal Granules 98% is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 1, Slightly hazardous to water
(Classification according to AwSV; ID No. 9286)

12th Ordinance Implementing the Federal
Immission Control Act - 12.BImSchV :

Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen

The substance is not listed

SZW-lijst van mutagene stoffen :

The substance is not listed

NIET-limitatieve lijst van voor de :

The substance is not listed

voortplanting giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de :

The substance is not listed

voortplanting giftige stoffen –

Vruchtbaarheid

NIET-limitatieve lijst van voor de :

The substance is not listed

voortplanting giftige stoffen – Ontwikkeling

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

Water-react. 2	Substances and Mixtures which, in contact with water, emit flammable gases, Category 2
H261	In contact with water releases flammable gases.
R15	Contact with water liberates extremely flammable gases
F	Highly flammable

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CALCIUM METAL GRANULES 98%

CAS-No.: 7440-70-2



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 for additional terms and conditions of sale.

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