

# MATERIAL SAFETY DATA SHEET (SDS/MSDS)

## CERIC SULPHATE 85% AR

CAS-No.: 13590-82-4

Product Code: 00719

Molecular Formula:  $CeO_8S_2$

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**CERIC SULPHATE 85% AR**

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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	:	Ceric Sulphate 85% AR
EC-No.	:	237-029-5
CAS No	:	13590-82-4
Synonyms	:	Ceric sulfate/ Cerium disulfate

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

#### 1.2.1. Relevant identified uses

Identified uses : 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]

Skin corrosion (Sub-category 1B),	H314
Serious eye damage (Category 1),	H318
Short-term (acute) aquatic hazard (Category 1),	H400
Long-term (chronic) aquatic hazard (Category 1),	H410

Full text of 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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Signal word (CLP)	:	GHS05	GHS09	Danger
Hazard statements (CLP)	:	H314 - Causes severe skin burns and eye damage H410 Very toxic to aquatic life with long lasting effects.		
Precautionary statements (CLP)	:	P260 Do not breathe dust. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. 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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Name	:	Ceric Sulphate 85% AR
CAS No	:	13590-82-4
EC-No.	:	237-029-5

Component	Classification	Concentration
Cerium(IV) sulphate		
CAS-No. 13590-82-4 EC-No. 237-029-5	Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1; H314, H318, H400, H410 M-Factor - Aquatic Acute:1	<= 100 %

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

General advice	:	First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
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First-aid measures after inhalation	:	After inhalation: fresh air. Call in physician.
First-aid measures after skin contact	:	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.
First-aid measures after eye contact	:	After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.
First-aid measures after swallowed	:	After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	:	For this substance/mixture no limitations of extinguishing agents are given.

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

Sulfur oxides, cerium oxides. Not combustible. Ambient fire may liberate hazardous vapours.

**5.3. Advice for firefighter**

Protection during firefighting	:	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
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**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

**6.2. Environmental precautions**

Do not let product enter drains.

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

Methods for cleaning up	:	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
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**6.4. Reference to other sections**

No additional information available

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

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Precautions for safe handling : For precautions see section 2.2.

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

Storage conditions : Tightly closed. Dry. Moisture sensitive.

### 7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Hand protection	:	Protective gloves
Eye protection	:	Tightly fitting safety goggles
Skin and body protection	:	Acid-resistant protective clothing
Respiratory protection	:	[In case of inadequate ventilation] wear respiratory protection.

## SECTION 9: Physical and chemical properties

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

Physical state	:	crystalline
Colour	:	yellow-orange
Odour	:	odorless
Odour threshold	:	No data available
pH	:	ca.0,5 at 207 g/l at 20 °C
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point/Freezing point	:	200 °C at 1.013 hPa - OECD Test Guideline 102 -Decomposes without melting., Elimination of water of crystallization
Boiling point	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	> 400 °C at 1.013 hPa - Relative self-ignition temperature for solidsdoes not ignite
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	< 0,1 hPa at 20 °C - OECD Test Guideline 104, < 0,1 hPa at 50 °C - OECD Test Guideline 104
Density	:	3,01 g/mL at 25 °C - lit.
Relative vapour density at 20 °C	:	No data available
Relative density	:	3,24 at 20 °C - OECD Test Guideline 109
Solubility	:	207 g/l at 20 °C - OECD Test Guideline 105
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

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### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3. Possibility of hazardous reactions

Violent reactions possible with: strong reducing agents

### 10.4. Conditions to avoid

Avoid moisture.

### 10.5. Incompatible materials

Strong oxidizing agents

### 10.6. Hazardous decomposition products

In the event of fire: see section 5

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	:	Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Oral: No data available Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:., damage of respiratory tract Dermal: No data available
Serious eye damage/irritation	:	Eyes - In vitro study Result: Corrosive Remarks: Causes serious eye damage. Risk of blindness!
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Test Type: Ames test. Test system: Escherichia coli/Salmonella typhimurium. Metabolic activation: with and without metabolic activation. Method: OECD Test Guideline 471. Result: negative
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ toxicity (single exposure)	:	Not classified
Specific target organ toxicity (repeated exposure)	:	Not classified
Aspiration hazard	:	Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

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Toxicity to daphnia and other aquatic invertebrates : static test EC50 – Daphnia magna (Water flea) – 0,98 mg/l – 48 h (OECD Test Guideline 202)

### 12.2. Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

### 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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

No data available

## SECTION 14: Transport information

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

### 14.1. UN number

UN-No. (ADR)	:	1759
UN-No. (IMDG)	:	1759
UN-No.(IATA)	:	1759
UN-No.(AND)	:	1759
UN-No. (RID)	:	1759

### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	:	CORROSIVE SOLID, N.O.S. (Cerium(IV) sulphate)
Proper Shipping Name (IMDG)	:	CORROSIVE SOLID, N.O.S. (Cerium(IV) sulphate)
Proper Shipping Name (IATA)	:	CORROSIVE SOLID, N.O.S. (Cerium(IV) sulphate)
Proper Shipping Name (ADN)	:	CORROSIVE SOLID, N.O.S. (Cerium(IV) sulphate)
Proper Shipping Name (RID)	:	CORROSIVE SOLID, N.O.S. (Cerium(IV) sulphate)

### 14.3. Transport hazard class(es)

ADR

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

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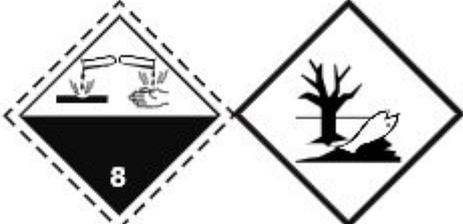
DRIVEN BY CHEMISTRY, DEFINED BY PRECISION

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**IMDG**

Transport hazard class(es) (IMDG) : 8

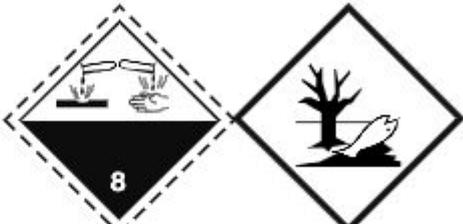
Danger labels (IMDG) : 8

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**IATA**

Transport hazard class(es) (IATA) : 8

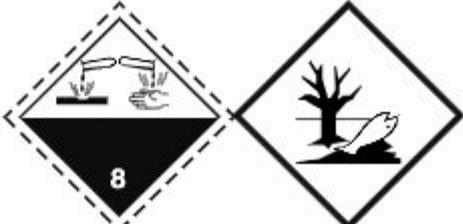
Hazard labels (IATA) : 8

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**AND**

Transport hazard class(es) (ADN) : 8

Danger labels (AND) : 8

	:		
			

**RID**

Transport hazard class(es) (RID) : 8

Danger labels (RID) : 8

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#### 14.4. Packing group

Packing group (ADR)	:	II
Packing group (IMDG)	:	II
Packing group (IATA)	:	II
Packing group (ADN)	:	II
Packing group (RID)	:	II

#### 14.5. Environmental hazards

Dangerous for the environment	:	Yes
Marine pollutant	:	Yes
Other information	:	No supplementary information available

#### 14.6. Special precautions for user

- Overland transport

No Classified

- Transport by sea

No Classified

- Air transport

No Classified

- Inland waterway transport

No Classified

- Rail transport

No Classified

#### 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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

##### 15.1.1. EU-Regulations

##### 15.1.2. National regulations

###### National legislation

Seveso III: Directive 2012/18/EU of the : ENVIRONMENTAL HAZARDS  
European Parliament and of the Council on the  
control of major-accident hazards involving  
dangerous substances.

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### 15.2. Chemical safety assessment

Take note of Dir 94/33/EC on the protection of young people at work.

### SECTION 16: Other information

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

H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

### 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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