

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Reference number: 02642 Issue date: 14-10-2021 Revision date: 14-10-2021 Supersedes version of: 17-05-2016 Version: 1.0

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

1.1. Product identifier	
Product form Trade name EC-No. CAS-No. Product code Formula Chemical structure	: Substance : CERIC SULPHATE HYDRATE AR : 237-029-5 : 95838-16-7 : 02642 : Ce(SO4)2.XH2O : $O_{-} = S_{-} O Ce^{4+} O = S_{-} O XH_2O$
Synonyms	: Cerium (IV) sulphate Hydrate
1.2. Relevant identified uses of the substa	nce or mixture and uses advised against
<ul> <li>1.2.1. Relevant identified uses</li> <li>Use of the substance/mixture</li> <li>1.2.2. Uses advised against</li> <li>No additional information available</li> </ul>	: Laboratory chemicals, Manufacture of substances
1.3. Details of the supplier of the safety da	ta sheet
LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com	
1.4. Emergency telephone number	
Emergency number	: + 91 22 6663 6663 (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 [CL	2]	
Oxidising Solids, Category 3	H272	
Skin corrosion/irritation, Category 1, Sub-Category 1C	H314	
Full text of H-statements: see section 16		

Adverse physicochemical, human health and environmental effects

May intensify fire; oxidiser. Causes severe skin burns and eye damage. Causes serious eye damage.



Hazard pictograms (CLP)	
	GHS03 GHS05
Signal word (CLP)	: Danger
Hazard statements (CLP)	: H272 - May intensify fire; oxidiser.
	H314 - Causes severe skin burns and eve damage.
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

P220 - Keep away from clothing and other combustible materials.
P280 - Wear protective clothing, eye protection, face protection.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water or shower.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a doctor.

### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type Name CAS-No. EC-No. : Mono-constituent : CERIC SULPHATE HYDRATE AR

- . CENIC SULFIIAI
- : 95838-16-7
- : 237-029-5

### 3.2. Mixtures

Not applicable

## **SECTION 4: First aid measures**

4.1. Description of first aid measures	
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	<ul> <li>Wash with plenty of water/ Wash contaminated clothing before reuse. Get medical advice/attention. Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.</li> </ul>
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. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and effect	s, both acute and delayed
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	<ul> <li>May cause respiratory irritation.</li> <li>Causes skin irritation. Burns.</li> <li>Causes serious eye irritation. Serious damage to eyes.</li> <li>Burns.</li> </ul>

### 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 Unsuitable extinguishing media	<ul><li>Carbon dioxide. Dry powder. Foam. Water spray.</li><li>Do not use a heavy water stream.</li></ul>
5.2. Special hazards arising from the subs	tance or mixture
Fire hazard Hazardous decomposition products in case of fire	<ul> <li>May intensify fire; oxidiser.</li> <li>Toxic fumes may be released.</li> </ul>

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

5.3. Advice for firefighters	
Protection during firefighting	<ul> <li>Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</li> </ul>
SECTION 6: Accidental release	e measures
6.1. Personal precautions, protect	ive equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Do not breathe dust, fume, gas, mist, spray, vapours.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Use personal protectiv equipment as required. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Avoid release to the environment.	

Methods for cleaning up	: Mechanically recover the product. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.
Other information	Notify authorities if product enters sewers or public waters. Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	

For further information refer to section 13.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
	Avoid contact with skin and eyes. Use only outdoors or in a well-ventilated area. Do not breathe vapours. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Do not breathe dust, fume, gas, mist, spray, vapours. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, including any incompatibilities		
5	Keep container tightly closed. Store in a dry place. Store locked up. Store in a well- ventilated place. Keep cool. combustible materials.	
7.3. Specific end use(s)		

No additional information available

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

#### 8.1. Control parameters

#### 8.1.1. National occupational exposure and biological limit values

No additional information available

### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

Eye protection: Safety glasses

#### 8.2.2.2. Skin protection

Hand protection: Protective gloves

#### 8.2.2.3. Respiratory protection

#### **Respiratory protection:**

[In case of inadequate ventilation] wear respiratory protection.

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

**Environmental exposure controls:** Avoid release to the environment.

**SECTION 9: Physical and chemical properties** 9.1. Information on basic physical and chemical properties Physical state Solid Appearance Crystalline powder. Molecular mass 332.24 g/mol (Anhydrous) Colour · Yellow. Odour Odourless. Odour threshold : No data available : No data available pН

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Relative evaporation rate (butylacetate=1) Melting point Freezing point Boiling point Flash point Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapour pressure Relative vapour density at 20 °C Relative density Density Solubility Partition coefficient n-octanol/water (Log Pow) Viscosity, kinematic Viscosity, dynamic Explosive properties	<ul> <li>No data available</li> <li>195 °C (with decomposition)</li> <li>Not applicable</li> <li>No data available</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>No data available</li> <li>3.01 g/cm³ at 20°C</li> <li>Water: Soluble in water</li> <li>No data available</li> <li>Not applicable</li> <li>Not ata available</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> <li>Not applicable</li> <li>No tapplicable</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> </ul>
Oxidising properties Explosive limits	: Oxidizer. : Not applicable
•	

### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

May cause or intensify fire; oxidiser.

**10.2. Chemical stability** 

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Air contact. Direct sunlight. Moisture. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Oxidizing agent. Combustible materials.

**10.6. Hazardous decomposition products** 

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Skin corrosion/irritation	Causes severe skin burns.
Serious eye damage/irritation	Assumed to cause serious eye damage
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

	Not classified Not classified
CERIC SULPHATE HYDRATE AR (95838-16-7)	
Viscosity, kinematic	Not applicable

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general Hazardous to the aquatic environment, short-term (acute) Hazardous to the aquatic environment, long-term (chronic)	<ul> <li>Before neutralisation, the product may represent a danger to aquatic organisms.</li> <li>Not classified</li> <li>Not classified</li> </ul>
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

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

## **SECTION 14: Transport information**

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

14.1. UN number	
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN)	: UN 3085 : UN 3085 : UN 3085 : UN 3085
UN-No. (RID)	: UN 3085
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) Transport document description (ADR) Transport document description (IMDG) Transport document description (IATA)	<ul> <li>OXIDIZING SOLID, CORROSIVE, N.O.S.</li> <li>UN 3085 OXIDIZING SOLID, CORROSIVE, N.O.S. (Ceric sulphate Hydrate), 5.1 (8), III, (E)</li> <li>UN 3085 OXIDIZING SOLID, CORROSIVE, N.O.S. (Ceric sulphate Hydrate), 5.1 (8), III</li> <li>UN 3085 Oxidizing solid, corrosive, n.o.s. (Ceric sulphate Hydrate), 5.1 (8), III</li> </ul>

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) w	ith its amendment Regulation (EU) 2015/830
Transport document description (ADN) Transport document description (RID)	: UN 3085 OXIDIZING SOLID, CORROSIVE, N.O.S. (Ceric sulphate Hydrate), 5.1 (8), III : UN 3085 OXIDIZING SOLID, CORROSIVE, N.O.S. (Ceric sulphate Hydrate), 5.1 (8), III
14.3. Transport hazard class(es)	
<b>ADR</b> Transport hazard class(es) (ADR) Danger labels (ADR)	: 5.1 (8) : 5.1, 8
IMDG Transport hazard class(es) (IMDG) Danger labels (IMDG)	: 5.1 (8) : 5.1, 8
IATA Transport hazard class(es) (IATA) Danger labels (IATA)	: 5.1 (8) : 5.1, 8
<b>ADN</b> Transport hazard class(es) (ADN) Danger labels (ADN)	: 5.1 (8) : 5.1, 8
<b>RID</b> Transport hazard class(es) (RID) Danger labels (RID)	: 5.1 (8) : 5.1, 8
14.4. Packing group	
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	: III : III : III : III

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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)	: OC2
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	
Packing instructions (ADR) Special packing provisions (ADR)	: P002, IBC08, R001 : B3
Mixed packing provisions (ADR)	: MP2
Portable tank and bulk container instructions (ADR)	
Portable tank and bulk container special provisions	: TP33
(ADR)	
Tank code (ADR)	: SGAN
Tank special provisions (ADR)	: TU3
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV24
Hazard identification number (Kemler No.) Orange plates	58
	<u>58</u> 3085
Tunnel restriction code (ADR)	: E
EAC code	: 1W
Transport by sea	
Special provisions (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P002
IBC packing instructions (IMDG) IBC special provisions (IMDG)	: IBC08 : B3
Tank instructions (IMDG)	: T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-Q
Stowage category (IMDG)	: B
Stowage and handling (IMDG)	: H1
Segregation (IMDG)	: SG38, SG49, SG60
Properties and observations (IMDG)	: Causes burns to skin, eyes and mucous membranes.Particular care in handling should be exercised if packages have become wetted.
Air transport	
Air transport PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y545
PCA limited quantity max net quantity (IATA)	: 5kg
PCA packing instructions (IATA)	: 559
PCA max net quantity (IATA)	: 25kg
CAO packing instructions (IATA)	: 563
CAO max net quantity (IATA)	: 100kg
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 5C

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### Inland waterway transport

:	OC2
:	274
:	5 kg
:	E1
:	PP, EP
:	0
:	OC2
:	274
:	5kg
:	E1
:	P002, IBC08, R001
:	B3
:	MP2
:	T1
:	TP33
:	SGAN
:	TU3
:	3
:	CW24
-	CE11
:	58

14.7. Transport in bulk according to Annex II of Marpol 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

No REACH Annex XVII restrictions

CERIC SULPHATE HYDRATE AR is not on the REACH Candidate List

CERIC SULPHATE HYDRATE AR is not on the REACH Annex XIV List

CERIC SULPHATE HYDRATE AR is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

CERIC SULPHATE HYDRATE AR is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

### 15.1.2. National regulations

### Germany

Water hazard class (WGK)	: Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV)
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
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 voortplanting	: The substance is not listed
giftige stoffen – Borstvoeding	
NIET-limitatieve lijst van voor de voortplanting	: The substance is not listed
giftige stoffen – Vruchtbaarheid	
NIET-limitatieve lijst van voor de voortplanting	: The substance is not listed
giftige stoffen – Ontwikkeling	
Denmark	
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

Abbreviations and acr	onyms
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
РВТ	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Full text of H- and EUH-statements	
Ox. Sol. 3	Oxidising Solids, Category 3
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
H272	May intensify fire; oxidiser.
H314	Causes severe skin burns and eye damage.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.