www.himedialabs.com Safety data sheet(SDS) According to Regulation (EC) No.1907/2006

Revision : 01

Date of Revision : 23.08.2023

# 1 Identification of the substances/ mixture and of the company/ undertaking

1.1	<b>Product Identifiers</b> Product Number	GRM297	
	Product Name	Ceric ammonium nitrate, Hi-AR™ACS	
	CAS No. :	16774-21-3	
	EC No. :	240-827-6	
1.2	Relevant identified uses of the substance or mixture and uses advised against		
1.2.1	Relevant identified uses	Laboratory chemicals, Manufacture of sul	bstances
1.3	1.3 Details of the supplier of the safety data sheet		
	Produced by	HiMedia Laboratories Private Limited	
	Reg Address	C-40, Road No.21Y, MIDC, Wagle Industr	ial Area, Thane(W), - 400 604, India
	Tel. No.	+91-22-6147 1919/6116 9797	Fax No. :+91-22-61471920
	Mail Id	info@himedialabs.com	Website : www.himedialabs.com

1.4Emergency Tel. No.Emergency Tel. No.Please

Please contact the regional HiMedia representation in your country

### 2 Hazards Identification

# 2.1 Classification of the substance or mixture *CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]*

Oxidising liquids, (Category 2), H272 Acute toxicity, Oral, (Category 4), H302 Skin corrosion or irritation, (Category 2), H315 Serious eye damage or eye irritation, (Category 2A), H319 Specific target organ toxicity, single exposure, Respiratory tract irritation, (Category 3), H335

### 2.2 Label elements

# Labeling according to Regulation (EC) No.1272/2008



Pictogram Signal word	Danger	
Hazard Stateme	nt(s)	
H272	May intensify fire; oxidizer	
H302	Harmful if swallowed	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	
Precautionary Statement(s)		

P220 Keep/Store away from clothing/combustible materials.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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.

# 3 Composition/Information On Ingredients

# 3.1 Substances

Synonym	Ammonium ceric nitrate, Hi-AR™ACS
Molecular Formula :	(NH <sub>4</sub> ) <sub>2</sub> Ce(NO <sub>3</sub> ) <sub>6</sub>
Molecular Weight :	548.22
CAS No. :	16774-21-3
EC No. :	240-827-6

Co	mponent	Classification	Concentration
Ceric ammo	nium nitrate, Hi-A	R™ACS	
CAS No. :	16774-21-3	As Per EC Regulation 1272/2008	100%
EC No. :	240-827-6	Ox. Liq. 2; Acute Tox.oral 4; Skin Irrit. 2;	
		Eye Irrit. 2A; STOT SE 3 H272; H302;	
		H315; H319; H335	

For the full text of the H-Statements and classification mentioned in this Section, see Section 16

# 4 First Aid Measures

# 4.1 Description of first aid measures

# General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

# In case of skin contact

Wash with plenty of soap and water. Consult a physician.

# In case of eye contact

Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

# If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

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

# 4.3 Indication of immediate medical attention and special treatment needed

No data available

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5	Fire Fighting Measures
5.1	Extinguishing media
	Suitable extinguishing media
	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
	Unsuitable extinguishing media
	No data available.
5.2	Special hazards arising from the substance or mixture
	Nitrogen oxides (NOx), cerium oxides
5.3	Precautions for fire-fighters
5.5	Wear self contained breathing apparatus for fire fighting if necessary
<b>F A</b>	Further information
5.4	
	No data available
6	Accidental Release Measures
6.1	Personal precautions, protective equipment and emergency procedures
	Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
	Evacuate personnel to safe areas.
6.2	Environmental precautions
	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into
	environment must be avoided.
6.3	Methods and materials for containment and cleaning up
	Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum
	cleaner or by wet-brushing and place in container for disposal according to local regulations (see
	section 13). Keep in suitable, closed containers for disposal.
6.4	Reference to other sections
0.4	For disposal see Section 13.
	For disposal see Section 15.
•	
-	Ling and Storage
7	Handling and Storage
7.1	Precautions for safe handling
	Avoid contact with skin and eyes. Avoid inhalation of dust and aerosols. Provide appropriate exhaust
	ventilation at places where dust is formed. Keep away from sources of heat and ignition - No
	smoking. For precautions see section 2.2
7.2	Conditions for safe storage, including any incompatibilities
	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
	<b>Recommended Storage Temperature</b> : Below 30°C
7.3	Specific end uses
7.5	•
	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.
8	Exposure Controls/Personal Protection

#### 8.1 Control parameters

Components with workplace control parameters

# 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance to general industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

### Hygiene measure

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

# Eye/face protection

Faceshield and safety goggles.

#### Skin protection

Handle with gloves.

### **Body protection**

Complete suit protecting against chemicals.

### **Respiratory protection**

Air-purifying respirators.

#### Environment exposure controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 9 Physical and chemical properties

9.1	Information on basic physical and chemical properties		
	Appearance	Orange to orange-red crystals or powder	
	Odour	No data available	
	Odour Threshold	No data available	
	рН	No data available	
	Melting/freezing point	No data available	
	Initial boiling point and boiling range	No data available	
	Flash point	No data available	
	Upper/lower flammability or explosive limits	No data available	
	Evaporation rate	No data available	
	Flammability (Solid, gas)	No data available	
	Vapour pressure	No data available	
	Relative density	No data available	
	Water Solubility	No data available	
	Partition coefficient: n-octanol/water	No data available	
	Autoignition Temperature	No data available	
	Decomposition Temperature	No data available	
	Viscosity	No data available	
	Explosive properties	No data available	
	Oxidizing properties	No data available	
	Vapour density	No data available	
	Thermal decomposition	No data available	

### 9.2 Other safety information

No data available

10	Stability and Reactivity
10.1	Reactivity
	No data available
10.2	Chemical stability
	Stable under recommended storage conditions.
10.3	Possibility of hazardous reactions
	No data available
10.4	Conditions to avoid
	Incompatible material
10.5	Incompatible materials
	Metals
10.6	Hazardous decomposition products

Other decomposition products - refer section 5.2.

In the event of fire - refer section 5.

### 11 Toxicological Information

11.1 Information on toxicological effects Acute toxicity No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Reproductive toxicity No data available Specific target organ toxicity- single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information **RTECS** : Not available

L <b>2.1</b>	Toxicity
	No data available
12.2	Persistence and degradability
	No data available
12.3	Bioaccumulative potential
	No data available
12.4	Mobility in soil
	No data available
12.5	PBT and vPvB assessment
	PBT and vPVB assessment not available Chemical safety assessment is not required
12.6	Other adverse effects
	Discharge into the environment must be avoided.

# **13** Disposal Considerations

# **13.1** Waste treatments methods

### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustive solvent and burn in chemical incinerator equipped with an afterburner and scrubber.

### 13.2 Contaminated packaging

Dispose of as unused product.

# 14 Transport Information

14.1	UN-No		
	ADNR:1477 ADR:1477 IATA_C:1477 IATA_P:1477 IMDG:1477 RID:1477		
14.2	UN proper shipping name		
	ADNR : Nitrates, inorganic, n.o.s.		
	ADR : Nitrates, inorganic, n.o.s.		
	IATA_C : Nitrates, inorganic, n.o.s.		
	IATA_P : Nitrates, inorganic, n.o.s.		
	IMDG : Nitrates, inorganic, n.o.s.		
	RID : Nitrates, inorganic, n.o.s.		
14.3	Transport hazard class(es)		
	ADNR : 5.1 ADR : 5.1 IATA_C : 5.1 IATA_P : 5.1 IMDG : 5.1 RID : 5.1		
14.4	Packaging group		
	ADNR : II ADR : II IATA C : II IATA P : II IMDG : II RID : II		
14.5	Environmental hazards		
	ADNR : Yes ADR : Yes IMDG : Marine Pollutant : Yes IATA_C : No IATA_P : No RID : Yes		
14.6	Special precautions for use		
	No data available		

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#### 15 Regulatory Information

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

15.1 Safety health and environment regulations/legislation specific for the substance or mixture

No data available

**15.2 Chemical Safety Assessment** No data available

### 16 Other information

Text of H-Statements and EUH-Phrases mentioned in section 3 H272 May intensify fire; oxidizer H302 Harmful if swallowed H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation Ox. Liq. 2 Oxidising liquids, Category 2 Acute Tox.oral 4 Acute toxicity, oral, Category 4 Skin Irrit. 2 Skin corrosion or irritation, Category 2 Eve Irrit. 2A Serious eye damage or eye irritation, Category 2A STOT SE 3 Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3

#### **Further Information**

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