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

Revision : 02

Date of Revision : 03.05.2023

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

1.1 Product Identifiers

HIMEDIA

Product Number	GRM2284
Product Name	Lithium perchlorate, Hi-AR™/ACS
CAS No. :	7791-03-9
EC No. :	232-237-2

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

1.2.1 Relevant identified uses Laboratory chemicals, Manufacture of substances

1.3	Details of the supplier of	f the safety data sheet	
	Produced by	HiMedia Laboratories Private Limite	d
	Address	C-40, Road No.21Y, MIDC, Wagle Inc	dustrial 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
1.4	Emergency Tel. No.		
	Emergency Tel. No.	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 1A), H314 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 Statement(s)			
H272	May intensify fire; oxidizer		
H302	Harmful if swallowed		
H314	Causes severe skin burns and eye damage		
H335	May cause respiratory irritation		
Precautionary Statement(s)			

Precautionary Statement(s)

P210. Keep away from heat/sparks/open flames/hot surfaces.

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P312	IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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

Molecular Formula :	ClLiO₄
Molecular Weight :	106.39
CAS No. :	7791-03-9
EC No. :	232-237-2

Component		Classification	Concentration	
Lithium pero	Lithium perchlorate, Hi-AR [™] /ACS			
CAS No. :	7791-03-9	As Per EC Regulation 1272/2008	100%	
EC No. :	232-237-2	Ox. Liq. 2; Acute Tox.oral 4; Skin Corr. 1A; STOT SE 3 H272; H302; H314; 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

- 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 Hydrogen chloride gas, Lithium oxides
- 5.3 Precautions for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary
- 5.4 Further information 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

For disposal see Section 13.

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. 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. *Recommended Storage Temperature :* Below 30°C

7.3 Specific end uses

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 White to off-white hygroscopic crystals or Appearance powder or solid Odour No data available **Odour Threshold** No data available pН No data available Melting/freezing point No data available Initial boiling point and boiling range No data available No data available Flash point Upper/lower flammability or explosive limits No data available **Evaporation rate** No data available No data available Flammability (Solid, gas) 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 No data available Viscosity **Explosive properties** No data available Oxidizing properties No data available No data available Vapour density 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		
10.3	Stable under recommended storage conditions. Possibility of hazardous reactions		
10.5	No data available		
10.4	Conditions to avoid		
	Incompatible material		
10.5	Incompatible materials		
	No data available		
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		

12	Ecological Information		
12.1	Ecological Information Toxicity		
12.1	No data available		
12.2	Persistence and degradability		
	No data available		
12.3	Bioaccumulative potential		
	No data available		
12.4	Mobility in soil		
40 5	No data available		
12.5	PBT and vPvB assessment		
12.6	PBT and vPVB assessment not available Chemical safety assessment is not required Other adverse effects		
12.0	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:1481 ADR:1481 IATA_C:1481 IATA_P:1481 IMDG:1481 RID:1481		
14.2	UN proper shipping name		
14.2	ADNR : Perchlorates, inorganic, n.o.s.		
	ADR : Perchlorates, inorganic, n.o.s.		
	IATA_C : Perchlorates, inorganic, n.o.s.		
	IATA_P : Perchlorates, inorganic, n.o.s.		
	IMDG : Perchlorates, inorganic, n.o.s.		
	RID : Perchlorates, 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 : No ADR : No IMDG : Marine Pollutant : No IATA_C : No IATA_P : No RID : No
- 14.6 Special precautions for use

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No data available

15 15.1 15.2	mixture No data available	
16	Other information Text of H-Statements and B H272 H302 H314 H335 Ox. Liq. 2 Acute Tox.oral 4 Skin Corr. 1A STOT SE 3	EUH-Phrases mentioned in section 3 May intensify fire; oxidizer Harmful if swallowed Causes severe skin burns and eye damage May cause respiratory irritation Oxidising liquids, Category 2 Acute toxicity, oral, Category 4 Skin corrosion or irritation, Category 1A Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3

Further Information

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