www.himedialabs.com Safety data sheet(SDS)

According to Regulation (EC) No.1907/2006

Revision : 02

Date of Revision : 03.06.2022

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

#### 1.1 **Product Identifiers** Product Number **GRM473** Product Name tri-Ammonium citrate, Hi-AR™ CAS No. : 3458-72-8 EC No. : 222-394-5 Relevant identified uses of the substance or mixture and uses advised against 1.2 1.2.1 Relevant identified uses Laboratory chemicals, Manufacture of substances Details of the supplier of the safety data sheet 1.3

Details of the supplier of	he salety data sheet	
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### 2 Hazards Identification

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

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 Warning

Hazard Statement(s)

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation

Precautionary Statement(s)

- 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

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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

Commonwet	
FC No. :	222-394-5
CAS No. :	3458-72-8
Molecular Weight :	243.22
Molecular Formula :	$C_6H_{17}N_3O_7$

Component		Classification	Concentration
tri-Ammonium citrate, Hi-AR™			
CAS No. :	3458-72-8	As Per EC Regulation 1272/2008	100%
EC No. :	222-394-5	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 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

### 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

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No data available.

- 5.2 Special hazards arising from the substance or mixture
  - Carbon oxides, nitrogen oxides (NOX)
- 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

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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	White to off-white deliquescent 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.

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10.2	Dessibility of borowdous reactions		
10.3	Possibility of hazardous reactions No data available		
10.4			
10.4	Incompatible material		
10.5	Incompatible materials		
10.5	Strong oxidizing agents		
10.6	Hazardous decomposition products		
20.0	Other decomposition products - refer section 5.2.		
	In the event of fire - refer section 5.		
11	Toxicological Information		
11.1	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 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
49.6	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	
14.2	ADNR : ADR : IATA_C : IATA_P : IMDG : RID : UN proper shipping name
14.2	ADNR : Not dangerous goods
	ADR : Not dangerous goods
	IATA_C : Not dangerous goods
	IATA_P : Not dangerous goods
	IMDG : Not dangerous goods
	RID : Not dangerous goods
14.3	Transport hazard class(es)
	ADNR:-ADR:-IATA_C:-IATA_P:-IMDG:-RID:-
14.4	Packaging group
	ADNR :- ADR :- IATA_C :- IATA_P :- IMDG :- RID :-
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
	No data available
15	Regulatory Information
1E 1	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
	-
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No data available

16	<b>Other information</b> Text of H-Statements and EUH-Phrases mentioned in section 3	
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
	Skin Irrit. 2	Skin corrosion or irritation, Category 2
	Eye 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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The information given in this safety data sheet is believed to be correct yet does not claim to be all inclusive. This document is intended only as a guide for appropriate precautionary handling of the material by properly trained individuals, information here being commensurate with the present state of our knowledge regarding the manner and conditions of use, handling, storage or disposal. The information provided herein shall not be considered as guarantee of the properties of the product. HiMedia Laboratories, shall not be held liable for any damage resulting from improper handling or contact with the above product. Unless explicitly stated on the product or in any of the documentation accompanying the product, it is intended for research or testing purpose only and is not to be used for any other purpose.