# CAS-No.: 3458-72-8 MSDS



## MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier	
Product form	: Substance
	:
CAS-No.	: 3458-72-8
Product code	: 01150
Chemical structure	
	O OH • 3NH3

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

1.2.1. Relevant identified uses

Industrial/Professional use spec

: Industrial For professional use only

#### 1.2.2. Uses advised against

No additional information available

#### **1.3.** Details of the supplier of the safety data sheet

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in www.spanlab.in

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye H319 irritation, Category 2 Skin corrosion/irritation, H315 Category 2 Specific target organ H335 toxicity — Single exposure, Category 3, Respiratory tract irritation

Full text of H statements : see section 16

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## Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R36 Xi; R37 Xi; R38 Full text of R-phrases: see section 16

## Adverse physicochemical, human health and environmental effects No additional information available

2.2 Label elements	
2.2. Label elements	
Labelling according to Regulation (E	C) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	: GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	<ul> <li>H315 - Causes skin irritation.</li> <li>H319 - Causes serious eye irritation.</li> <li>H335 - May cause respiratory irritation.</li> </ul>
Precautionary statements (CLP)	: P261 - Avoid breathing vapours, dust, fume, gas. 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

No additional information available

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SECTI	ON 3: Composition/information	n on ingredients
3.1.	Substances	
Name CAS-N	lo.	: tri-AMMONIUM CITRATE AR : 3458-72-8
Full te	tt of R- and H-statements: see se	ection 16
3.2.	Mixtures	
Not ap	plicable	
SECTI	ON 4: First aid measures	
4.1.	Description of first aid meas	ures
First-ai	d measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

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First-aid measures after skin contact	: Wash with plenty of water/ Wash contaminated clothing before reuse. Get medical advice/attention.
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.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting.
4.2 Moot important overstores on	
	d effects, both acute and delayed
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
	nedical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from	the substance or mixture
No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory
	protection.
SECTION 6: Accidental release measu	ires
6.1. Personal precautions, protect	tive equipment and emergency procedures
6.1.1. For non-emergency personne	<u>ا</u> ا
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
6.1.2. For emergency responders Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Ventilate area.
Emergency procedures	
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for con	tainment and cleaning up
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as
	possible. On land, sweep or shovel into suitable containers.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid contact with skin and eyes. Use only outdoors or in a well-ventilated area. Do
	not breathe vapours.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, i	ncluding any incompatibilities
Storage conditions	: Keep container tightly closed. Store in a well-ventilated place.
	. Resp container aging officer. Otore in a weir vontilated place.
7.3. Specific end use(s)	
No additional information available	
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## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

No additional information available

8.2. Exposure controls	
Hand protection	: Protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.
SECTION 9: Physical and chemical prop	perties
9.1. Information on basic physical a Physical state	nd chemical properties : Solid
Molecular mass Colour	: 243.22 g/mol : White crystalline.
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 185 °C
Freezing point	: No data available
Boiling point	: 100 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density Solubility	: 1 g/cm³ : Water: Soluble in water
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

#### Data Sk S

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Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reaction	ns
No additional information available	
10.4. Conditions to avoid	
Direct sunlight. Air contact. Moisture.	
10.5. Incompatible materials	
No additional information available	
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<b>10.6.</b> Hazardous decomposition prod No additional information available	ucts
SECTION 11: Toxicological information	
11.1. Information on toxicological effe	ects
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation Respiratory or skin sensitisation	: Causes serious eye irritation. : Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Carcinogenicity	
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information		
12.1. Toxicity		
No additional information available		
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Ne 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         12.6. Other adverse effects         No additional information available         13.1. Waste treatment methods         No additional information available         SECTION 13.5 Disposal considerations         13.1. Waste treatment methods         No additional information available         SECTION 14.5 Transport information         In accordance with ADR / RID / IMDG / IATA / ADN         14.1. UN number         UN-No. (ADR)       : Not applicable         UN-No. (KIDC)       : Not applicable         UN-No. (KIDK)       : Not applicable         UN-No. (RID)       : Not applicable         Proper Shipping Name (MDR)       : Not applicable         Proper Shipping Name (RID)       : Not applicable		
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	Transport hazard class(es) (IATA)	: Not applicable

Safety Data Sheet

: Not applicable
: Not applicable
: Not applicable
: No
: No
: No supplementary information available

## 14.6. Special precautions for user

#### - Overland transport

No data available

#### - Transport by sea

No data available

#### - Air transport

No data available

- Inland waterway transport

No data available

## - Rail transport

No data available

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

## 15.1.1. EU-Regulations

#### No REACH Annex XVII restrictions

tri-AMMONIUM CITRATE AR is not on the REACH Candidate List tri-AMMONIUM CITRATE AR is not on the REACH Annex XIV List

#### 15.1.2. National regulations

#### Germany

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## Safety Data Sheet

12th Ordinance Implementing the Federal : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance) Immission Control Act - 12.BImSchV

## Netherlands

SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen	-	The substance is not listed The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	:	The substance is not listed
Denmark		
Recommendations Danish Regulation	:	Young people below the age of 18 years are not allowed to use the product

# **15.2.** Chemical safety assessment No additional information available

## **SECTION 16: Other information**

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

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
R36	Irritating to eyes	
R37	Irritating to respiratory system	
R38	Irritating to skin	
Xi	Irritant	

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