

### CAS No: 637-39-8 MSDS

### **MATERIAL SAFETY DATA SHEET (MSDS)**

SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product form : Substance EC no : 211-284-2 CAS No : 637-39-8 Product code : 06362 Chemical structure OH • HCI HO ОΗ : Tris(2-hydroxyethyl)aminehydrochloride / 2,2',2"-Nitrilotriethanolhydrochloride Synonyms 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. **Relevant identified uses** Use of the substance/mixture : Laboratory chemicals, Manufacture of substances Uses advised against 1.2.2. No additional information available 1.3. Details of the supplier of the safety data 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** Classification of the substance or mixture 2.1.

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC Not classified

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

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] No labelling applicable

#### 2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients			
3.1.	Substance		
Name		: TRIETHANOLAMINE HYDROCHLORIDE AR	
CAS No	D	: 637-39-8	
EC no		: 211-284-2	

Full text of R- and H-phrases: see section 16

# 3.2. Mixture Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. If you feel unwell, seek medical advice.
4.2. Most important symptoms and ef	fects, both acute and delayed
No additional information available	

#### 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>dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).</li><li>Do not use a heavy water stream.</li></ul>		

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

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5.3.	Advice for firefighters	
	on during firefighting	: Do not attempt to take action without suitable protective equipment.
SECTIC	ON 6: Accidental release measures	
6.1.	Personal precautions, protective	equipment and emergency procedures
6.1.1.	For non-emergency personnel	
Emerge	ncy procedures	: Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
Protecti	ve equipment	: Use personal protective equipment as required.
	ncy procedures	: Stop release.
6.2.	Environmental precautions	
Avoid re	elease to the environment.	
6.3.	Methods and material for contain	nment and cleaning up
Method	s for cleaning up	: Clear up rapidly by scoop or vacuum.
6.4.	Reference to other sections	
	tional information available	
SECTIO	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precaut	ions for safe handling	: Do not get in eyes, on skin, or on clothing.
Hygiene	e 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, incl	uding any incompatibilities
	conditions	: Store in original container. Keep container tightly closed. Store in a dry place.
otorugo	Conditions	Protect from moisture.
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7.3.	Specific end use(s)	
No additional information available		
OFOTIC	<b>ON 8: Exposure controls/personal</b>	protection
SECTIC		-
8.1.	Control parameters	
8.1.		

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	: Wear respiratory protection		
SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			

: Solid

Physical state

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Molecular mass Colour	: 185.65 g/mol : White crystalline.
Odour	: amine like.
Odour threshold	: No data available
рH	:4 - 5.5 at 50 g/l at 25 °C
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 177 - 179
Freezing point	: No data available
Boiling point	: No data available
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
Solubility	: Water: Soluble in water
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
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		
SECTION 10: Stability and reactivity         10.1.       Reactivity         No additional information available	9.2.	Other information
10.1.     Reactivity       No additional information available	No addi	tional information available
No additional information available	SECTIO	IN 10: Stability and reactivity
No additional information available		
	10.1.	Reactivity
10.2 Chemical stability	No addi	tional information available
	10.2.	Chemical stability
Stable under normal conditions.	Stable u	inder normal conditions.
10.3. Possibility of hazardous reactions	10.3.	Possibility of hazardous reactions
No additional information available	No addi	tional information available
10.4. Conditions to avoid	10.4.	Conditions to avoid

Direct sunlight. Air contact. Moisture.

#### 10.5. Incompatible materials

No additional information available

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#### **10.6.** Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
Skin corrosion/irritation	: Not classified		
	pH: 4 - 5.5 at 50 g/l at 25 °C		
Serious eye damage/irritation	: Not classified		
	pH: 4 - 5.5 at 50 g/l at 25 °C		
Respiratory or skin sensitisation	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
Specific target organ toxicity (single	: Not classified		
exposure)			
Specific target organ toxicity (repeated	: Not classified		
exposure)			
Aspiration hazard	: Not classified		
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#### **SECTION 12: Ecological information**

12.1.	Toxicity		
No additional information available			

12.2.	Persistence and degradability
No addi	tional information available
12.3.	Bioaccumulative potential
No addi	tional information available
12.4.	Mobility in soil
No addi	tional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

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12.6. Other adverse effects			
No additional information available			
SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
No additional information available			
SECTION 14: Transport information			
In accordance with ADR / RID / IMDG / IATA / ADN			
14.1. UN number			
UN-No. (ADR)	: Not applicable		
UN-No. (IMDG)	: Not applicable		
UN-No.(IATA)	: Not applicable		
UN-No.(ADN)	: Not applicable		
UN-No. (RID)	: Not applicable		
/ /			

Proper Shipping Name (ADR)	: Not applicable	
Proper Shipping Name (IMDG)	: Not applicable	
Proper Shipping Name (IATA)	: Not applicable	
Proper Shipping Name (ADN) : Not app		
Proper Shipping Name (RID)	: Not applicable	
14.3. Transport hazard class(es)		
ADR		

14.2. UN proper shipping name

Transport hazard class(es) (ADR)	: Not applicable
IMDG	

: Not applicable

Transport hazard class(es) (IATA)	: Not applicable
ADN	

#### Transport hazard class(es) (ADN)

RIDTransport hazard class(es) (RID): Not applicable

### 14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5 Environmental hazards	

No
No
No supplementary information available

: Not applicable

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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

TRIETHANOLAMINE HYDROCHLORIDE AR is not on the REACH Candidate List TRIETHANOLAMINE HYDROCHLORIDE AR is not on the REACH Annex XIV List

#### 15.1.2. National regulations

#### Germany

AwSV/VwVwS Annex reference	: Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 473)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

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

**SECTION 16: Other information** 

Safety Data Sheet

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