

CAS-No.: 87-67-2 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.	: 87-67-2
Product code	: 02792
Formula	: C9H19NO7
Chemical structure	$\begin{array}{c} \bullet \\ \bullet $
Synonyms	: 2-(Hydroxyethyl) trimethylammonium bitartrate
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

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

2.1. Classification of the substance or mixture

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

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Not classified

Safety Data Sheet

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

SECTION 3: Composition/information on ingredients

2.3. Other hazards

3.1.

Name

No additional information available

Substances

CHOLINE BITARTRATE EXTRA PURE	(CAS-No.) 87-67-2	100	
Full text of R- and H-statements: see section 16			
3.2. Mixtures			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
	re fresh air breathing. Allow the victim to rest.		
	h with plenty of water/		
First-aid measures after eye contact : Rinse immediately with plenty of water.			
-	e mouth.		
Ŭ			
4.2. Most important symptoms and effects,	both acute and delayed		
No additional information available			
4.0 Indiantian of any immediate medical offi			
4.3. Indication of any immediate medical atte	ention and special treatment needed		
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
	on dioxide. Dry powder. Foam. Water spray.		
	ot use a heavy water stream.		
	-		
5.2. Special hazards arising from the substance or mixture			
No additional information available			
5.2 Advice for fireficktore			
5.3. Advice for firefighters	at optor fire area without proper protective any inter	ont including recoirctory	
	ot enter fire area without proper protective equipment action.	ent, including respiratory	
prote			

Product identifier

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Safety Data Sheet

SECTIC	N 6: Accidental release measures	S
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	: Equip cleanup crew with proper protection.
6.2.	Environmental precautions	
Avoid re	lease to the environment.	
6.3.	Methods and material for contain	nment and cleaning up
Methods	s 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		
SECTIC	N 7: Handling and storage	
7.1.	Precautions for safe handling	
	ions for safe handling	: Avoid contact with skin and eyes. Avoid dust formation.
Hygiene	emeasures	: 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
Storage	conditions	: Store in a dry place. Store in a closed container.
7.3.	Specific end use(s)	
No additional information available		
SECTIC	N 8: Exposure controls/personal	protection
8.1.	Control parameters	
No addi	tional 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 properties		
9.1. Information on basic physical a	and chemical properties	
Physical state	: Solid	
Molecular mass	: 253.25 g/mol	
Colour	: white.	
Odour	: No data available	

Safety Data Sheet

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Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 147 - 152 °C
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	: No data available
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 add	itional information available
SECTIO	DN 10: Stability and reactivity
10.1.	Reactivity
	itional information available
10.2.	Chemical stability
Stable	under normal conditions.
10.3.	Possibility of hazardous reactions
No add	itional information available
10.4.	Conditions to avoid
Moistur	e.
10.5.	Incompatible materials
Oxidiziı	ng agent.
10.6.	Hazardous decomposition products
No add	itional information available

Safety Data Sheet

SECTION 11: Toxicological information

11.1. Information on toxicological	effects
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION	ON 12: Ecological information
12.1.	Toxicity
No add	litional information available
12.2.	Persistence and degradability
No add	litional information available
12.3.	Bioaccumulative potential
No add	litional information available
12.4.	Mobility in soil
No add	litional information available
12.5.	Results of PBT and vPvB assessment
No add	litional information available
12.6.	Other adverse effects
	litional information available
SECTIO	ON 13: Disposal considerations
13.1.	Waste treatment methods

No additional information available

Safety Data Sheet

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. (ADN) : Not applicable UN-No. (RID) : Not applicable 14.2. UN proper shipping name Proper Shipping Name (ADR) : Not applicable Proper Shipping Name (MDG) : Not applicable Proper Shipping Name (IMAG) : Not applicable Proper Shipping Name (MDG) : Not applicable Proper Shipping Name (MDG) : Not applicable Proper Shipping Name (MDG) : Not applicable Proper Shipping Name (ADN) : Not applicable Proper Shipping Name (RID) : Not applicable Proper Shipping Name (RID) : Not applicable Proper Shipping Name (RID) : Not applicable 14.3. Transport hazard class(es) (ADR) : Not applicable IMDG : : Not applicable Iransport hazard class(es) (IMDG) : Not applicable IATA : : Not applicable ADN : : Not applicable Transport hazard class(es)
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Transport hazard class(es) (IATA) : Not applicable ADN
ADN
Transport hazard class(es) (ADN) : Not applicable
RID
Transport 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
Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

Safety Data Sheet

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

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 CHOLINE BITARTRATE EXTRA PURE is not on the REACH Candidate List CHOLINE BITARTRATE EXTRA PURE is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

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

Netherlands

SZW-lijst van kankerverwekkende stoffen	:	The substance is not listed
SZW-lijst van mutagene stoffen	:	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

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