

CAS No: 77-86-1 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substan	ce/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
CAS No	: 77-86-1
Product code Chemical structure	: 06391
Chemical structure	НООН
	HO-NH ₂
Synonyms	: 2-Amino-2-(hydroxymethyl)-1,3-propanediol / THAM / Trometamol / Tris base / Tris(hydroxymethyl)aminomethane
1.2. Relevant identified uses of the s	ubstance or mixture and uses advised against
1.2.1. Relevant identified uses	
Use of the substance/mixture	: Laboratory chemicals, Manufacture of substances
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safe	ety data sheet
Labogens Fine Chem Industries	
1st Floor , Above Bank of India, Guru Vihar Ludhiana Pb. (141007)	, Rahon Road,
+91 9316777775, +91 7707855700	
sales@labogens.com - www.Labogens.co	<u>m</u>
1.4. Emergency telephone number	
Emergency number	: +91 7707855700 (9:00am - 6:00 pm)
SECTION 2: Hazards identification	
2.1. Classification of the substance of	or mixture

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

Classification according to Directive 67/548/EEC or 1999/45/EC

Xi; R36/38 Full text of R-phrases: see section 16 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

2.3. **Other hazards**

No additional information available

SECTIO	SECTION 3: Composition/information on ingredients								
3.1.	Substance								
Name		: TRIS BUFFER MOLECULAR BIOLOGY GRADE							
CAS N	0	: 77-86-1							

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

3.2.	Mixture																			
Not ap	plicable																			

SECTION 4: First aid measures	
4.1. Description of first aid measure	S
First-aid measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary.
First-aid measures after skin contact	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see on this label).
First-aid measures after eye contact	 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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	effects, both acute and delayed
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
4.3. Indication of any immediate me	dical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.4 Extinguishing modia	
5.1. Extinguishing media	
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	: Do not use a heavy water stream.

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5.2. Special hazards arising from the	e substance or mixture								
No additional information available									
5.3. Advice for firefighters									
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.								
SECTION 6: Accidental release measure	S								
C.4. Demonstrations methodistic									
	e equipment and emergency procedures								
6.1.1. For non-emergency personnel									
Emergency procedures	: Evacuate unnecessary personnel.								
6.1.2. For emergency responders									
Protective equipment	: Use personal protective equipment as required.								
Emergency procedures	: Stop release.								
6.2. Environmental precautions									
Avoid release to the environment.									
6.3. Methods and material for contai	nment and cleaning up								
Methods for cleaning up	: Clear up rapidly by scoop or vacuum.								
5 1									
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	: Do not get in eyes, on skin, or on clothing.								
Hygiene measures	: Wash thoroughly after handling.								
Tygiene measures	. Wash thoroughly after handling.								
7.2. Conditions for safe storage, incl	uding any incompatibilities								
Storage conditions	: Store in original container. Keep container tightly closed. Store in a dry place.								
	Protect from moisture.								
7.3. Specific end use(s)									
No additional information available									
SECTION 8: Exposure controls/personal									
8.1. Control parameters									

No additional information available

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8.2. Exposure controls	
Hand protection	: protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection Respiratory protection	: Wear suitable protective clothing : Wear respiratory protection
SECTION 9: Physical and chemical prop	· · ·
9.1. Information on basic physical ar	
Physical state	: Solid
Molecular mass Colour	: 121.14 g/mol : White crystalline.
Odour	: No data available
Odour threshold	: No data available
рН	: 10.5 - 12
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 167 - 172
Freezing point	: No data available
Boiling point	: 219 - 220
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.ReactivityNo additional information available	
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10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reaction	ons	
No additional information available		
10.4. Conditions to avoid		
Direct sunlight. Air contact. Moisture.		
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition prod	lucts	
No additional information available		
SECTION 11: Toxicological information		
11.1. Information on toxicological eff	ects	
Acute toxicity	: Not classified	
Skin corrosion/irritation	: Not classified	
	pH: 10.5 - 12	
Serious eye damage/irritation	: Not classified	
	pH: 10.5 - 12	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: Not classified	
/		
Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	

SECTION 12: Ecological information

12.1. Toxicity No additional information available

12.2. Persistence and degradability

No additional information available

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12.3. Bioaccumulative potential			
No additional information available			
12.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB ass	sessment		
No additional information available			
12.6. Other adverse effects			
No additional information available			
SECTION 13: Disposal consideration	S		
13.1. Waste treatment methods			
No additional information available			
SECTION 14: Transport information			
In accordance with ADR / RID / IMDG /			
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		
14.2. UN proper shipping name			
Proper Shipping Name (ADR)	: Not applicable		
Proper Shipping Name (IMDG)	: Not applicable		
Proper Shipping Name (IATA)	: Not applicable		
Proper Shipping Name (ADN)	: Not applicable		
Proper Shipping Name (RID)	: Not applicable		
14.3. Transport hazard class(es)			
ADR			
Transport hazard class(es) (ADR)	: Not applicable		
IMDG			
Transport hazard class(es) (IMDG)	: Not applicable		
ΙΑΤΑ			
Transport hazard class(es) (IATA)	: Not applicable		
ADN			
Transport hazard class(es) (ADN)	: Not applicable		
(הטוע)			
RID			
Transport hazard class(es) (RID)	: Not applicable		

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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

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

TRIS BUFFER MOLECULAR BIOLOGY GRADE is not on the REACH Candidate List TRIS BUFFER MOLECULAR BIOLOGY GRADE 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 3; WGK No 4650)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

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15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

R36/38	Irritating to eyes and 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