# TRIETHYLAMINE FOR HPLC MSDS

# CAS No: 121-44-8 MSDS

# LABOGEN'S

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

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

1.1. Product identifier	
Product form	: Substance
	:
EC index no	: 612-004-00-5
EC no	: 204-469-4
CAS No	: 121-44-8
Product code	: 06364
Chemical structure	CH <sub>3</sub>
	$H_3C \searrow \dot{N} \searrow CH_3$
Synonyms	: TEA
Cynonyms	

## 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

#### 1.2.2. Uses advised against

No additional information available

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

Labogens Fine Chem Industries 1st Floor , Above Bank of India, Guru Vihar , Rahon Road, Ludhiana Pb. (141007) +91 9316777775, +91 7707855700 sales@labogens.com -\_www.Labogens.com

#### 1.4. Emergency telephone number

Emergency number

: +91 7707855700 (9:00am - 6:00 pm)

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

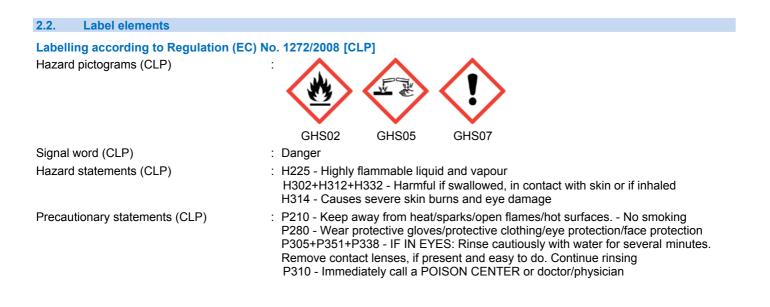
#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids,	H225
Category 2 Acute toxicity (oral),	H302
Category 4	11040
Acute toxicity (dermal), Category 4	H312
Acute toxicity (inhal.),	H332
Category 4 Skin corrosion/irritation, Category 1A	H314

Full text of classification categories and H statements : see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC F; R11 Xn; R20/21/22 C; R35 Full text of R-phrases: see section 16

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



#### 2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients		
3.1. Substance		
Name	: TRIETHYLAMINE FOR HPLC	
CAS No	: 121-44-8	
EC no	: 204-469-4	
EC index no	: 612-004-00-5	
CAS No EC no	: 121-44-8 : 204-469-4	

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

Safety Data Sheet

# **SECTION 4: First aid measures**

4.1. Description of first aid measures	<b>;</b>
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Specific treatment is urgent (see on this label).
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Specific measures (see on this label). Wash with plenty of soap and water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Specific treatment (see on this label).
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. Specific treatment (see on this label).
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries	: Causes severe skin burns and eye damage.
Symptoms/injuries after inhalation	: Harmful if inhaled.
Symptoms/injuries after skin contact	: Harmful in contact with skin.
Symptoms/injuries after eye contact	: Causes serious eye damage.
	: Harmful if swallowed.
4.3. Indication of any immediate med	ical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
	: Do not use a heavy water stream.
5.2. Special hazards arising from the	substance or mixture
Fire hazard	: Highly flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
5.3. Advice for firefighters	
	: Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release measures	
SECTION 0. Accidental release measures	
6.1. Personal precautions, protective	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 contain	nment and cleaning up
	: Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills

Safety Data Sheet

6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
SECTION 7. Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	: No naked lights. No smoking. Use only non-sparking tools. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact during pregnancy/while nursing.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
7.2. Conditions for safe storage, incl	luding any incompatibilities
Storage conditions	: Keep in fireproof place. Keep container tightly closed. Store in original container. Store in a dry place. Store in a well-ventilated place.
Incompatible materials	: Heat sources.
Packaging materials	: Do not store in corrodable metal.
7.3. Specific end use(s)	
No additional information available	
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 face shield
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection
SECTION 9: Physical and chemical pro	perties
9.1. Information on basic physical	and chemical properties
Physical state	: Liquid
Molecular mass	: 101.19 g/mol
Colour	: Clear Colorless.
Odour	: strong ammonia-like odor.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1	) : 5.6
Melting point	: -1150 °C
Freezing point	: No data available
Boiling point	: 88.8 °C

Safety Data Sheet

-	
Flash point	: -14.99 °C
Auto-ignition temperature	: 312 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable Highly flammable liquid and vapour
Vapour pressure	: 68.99 hPa at 20 °C
Relative vapour density at 20 °C	: 3.5
Relative density	: No data available
Density Solubility	: 0.73 g/cm³ : Water: 5.5 g/100ml @ 20°C
Log Pow	: 1.15
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 0.012 - 0.08 vol %

9.2.	Other	information	

No additional information available	No additional	information	available
-------------------------------------	---------------	-------------	-----------

<b>SECTION 10: Stabilit</b>	v and reactivity
	y and reactivity

## 10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

## 10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

# 10.3. Possibility of hazardous reactions

No additional information available

# 10.4. Conditions to avoid

Open flame. Direct sunlight. Overheating. Sparks.

# 10.5. Incompatible materials

No additional information available

# **10.6.** Hazardous decomposition products

May release flammable gases. Thermal decomposition generates : Corrosive vapours.

SECTION 11: Toxicological information	
11.1. Information on toxicological eff	ects
Acute toxicity	: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.

# Safety Data Sheet

Serious eye damage/irritation	: Serious eye damage, category 1, implicit
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)	
Additional information	: Corrosive to the respiratory tract
Specific target organ toxicity (repeated	: Not classified
exposure)	
Aspiration hazard	: Not classified
Potential adverse human health effects	: Harmful if swallowed. Harmful in contact with skin.
and symptoms	
SECTION 12: Ecological information	
12.1. Toxicity	

No additional information available

# 12.2. Persistence and degradability

No additional information available

12.3.	Bioaccumulative potential	
TRIE	THYLAMINE FOR HPLC (121-44-8)	
Log F	ow	1.15

## 12.4. Mobility in soil

No additional information available

12.5.	Results of PBT and vPvB assessment
No addit	ional information available

12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to
Additional information	: Handle empty containers with care because residual vapours are flammable.

Safety Data Sheet

# SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
UN-No. (ADR) UN-No. (IMDG) UN-No.(IATA) UN-No. (ADN) UN-No. (RID)	: 1296 : 1296 : 1296 : 1296 : 1296
14.2.UN proper shipping nameProper Shipping Name (ADR)Proper Shipping Name (IMDG)Proper Shipping Name (IATA)Proper Shipping Name (ADN)Proper Shipping Name (RID)Transport document description (ADR)Transport document description (IMDG)Transport document description (IATA)Transport document description (IATA)Transport document description (IATA)Transport document description (ADN)Transport document description (ADN)Transport document description (RID)	<ul> <li>TRIETHYLAMINE</li> <li>TRIETHYLAMINE</li> <li>TRIETHYLAMINE</li> <li>TRIETHYLAMINE</li> <li>TRIETHYLAMINE</li> <li>UN 1296 TRIETHYLAMINE, 3 (8), II, (D/E)</li> <li>UN 1296 TRIETHYLAMINE, 3 (8), II (-11°C c.c.)</li> <li>UN 1296 TRIETHYLAMINE, 3 (8), II</li> </ul>
14.3. Transport hazard class(es)	
ADR Transport hazard class(es) (ADR) Danger labels (ADR)	: 3 (8) : 3, 8 :
<b>IMDG</b> Transport hazard class(es) (IMDG) Danger labels (IMDG)	: 3 (8) : 3, 8
<b>IATA</b> Transport hazard class(es) (IATA) Hazard labels (IATA)	: 3 (8) : 3, 8
<b>ADN</b> Transport hazard class(es) (ADN)	: 3 (8)

# Safety Data Sheet

Safety Data Sheet	
Danger labels (ADN)	: 3, 8
RID	
Transport hazard class(es) (RID)	: 3 (8)
Danger labels (RID)	: 3, 8
14.4. Packing group	
Packing group (ADR)	
Packing group (IMDG)	
Packing group (IATA)	: II : II
Packing group (ADN) Packing group (RID)	: II : II
Facking group (RD)	. 11
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	
Classification code (ADR)	: FC
Limited quantities (ADR)	
	: 1L
Excepted quantities (ADR)	: 1L : E2
Packing instructions (ADR)	: 1L : E2 : P001, IBC02
Packing instructions (ADR) Mixed packing provisions (ADR)	: 1L : E2 : P001, IBC02 : MP19
Packing instructions (ADR)	: 1L : E2 : P001, IBC02
Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special	: 1L : E2 : P001, IBC02 : MP19
Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR)	: 1L : E2 : P001, IBC02 : MP19 : T7 : TP1
Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR) Tank code (ADR)	: 1L : E2 : P001, IBC02 : MP19 : T7 : TP1 : L4BH
Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR) Tank code (ADR) Vehicle for tank carriage	<ul> <li>1L</li> <li>E2</li> <li>P001, IBC02</li> <li>MP19</li> <li>T7</li> <li>TP1</li> <li>L4BH</li> <li>FL</li> </ul>
Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR) Tank code (ADR) Vehicle for tank carriage Transport category (ADR)	<ul> <li>1L</li> <li>E2</li> <li>P001, IBC02</li> <li>MP19</li> <li>T7</li> <li>TP1</li> <li>L4BH</li> <li>FL</li> <li>2</li> </ul>
Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR) Tank code (ADR) Vehicle for tank carriage	<ul> <li>1L</li> <li>E2</li> <li>P001, IBC02</li> <li>MP19</li> <li>T7</li> <li>TP1</li> <li>L4BH</li> <li>FL</li> <li>2</li> </ul>
Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR) Tank code (ADR) Vehicle for tank carriage Transport category (ADR) Special provisions for carriage - Operation	<ul> <li>1L</li> <li>E2</li> <li>P001, IBC02</li> <li>MP19</li> <li>T7</li> <li>TP1</li> <li>L4BH</li> <li>FL</li> <li>2</li> <li>S2, S20</li> </ul>
<ul> <li>Packing instructions (ADR)</li> <li>Mixed packing provisions (ADR)</li> <li>Portable tank and bulk container instructions (ADR)</li> <li>Portable tank and bulk container special provisions (ADR)</li> <li>Tank code (ADR)</li> <li>Vehicle for tank carriage</li> <li>Transport category (ADR)</li> <li>Special provisions for carriage - Operation (ADR)</li> </ul>	<ul> <li>1L</li> <li>E2</li> <li>P001, IBC02</li> <li>MP19</li> <li>T7</li> <li>TP1</li> <li>L4BH</li> <li>FL</li> <li>2</li> <li>S2, S20</li> </ul>
Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR) Tank code (ADR) Vehicle for tank carriage Transport category (ADR) Special provisions for carriage - Operation (ADR) Hazard identification number (Kemler No.)	<ul> <li>1L</li> <li>E2</li> <li>P001, IBC02</li> <li>MP19</li> <li>T7</li> <li>TP1</li> <li>L4BH</li> <li>FL</li> <li>2</li> <li>S2, S20</li> <li>338</li> </ul>
Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR) Tank code (ADR) Vehicle for tank carriage Transport category (ADR) Special provisions for carriage - Operation (ADR) Hazard identification number (Kemler No.)	<ul> <li>1L</li> <li>E2</li> <li>P001, IBC02</li> <li>MP19</li> <li>T7</li> <li>TP1</li> <li>L4BH</li> <li>FL</li> <li>2</li> <li>S2, S20</li> </ul>
Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR) Tank code (ADR) Vehicle for tank carriage Transport category (ADR) Special provisions for carriage - Operation (ADR) Hazard identification number (Kemler No.) Orange plates	: $1L$ : $E2$ : $P001, IBC02$ : $MP19$ : $T7$ : $TP1$ : $L4BH$ : $FL$ : $2$ : $S2, S20$ : $338$ :
Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR) Tank code (ADR) Vehicle for tank carriage Transport category (ADR) Special provisions for carriage - Operation (ADR) Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR)	: $1L$ : $E2$ : $P001, IBC02$ : $MP19$ : $T7$ : $TP1$ : $L4BH$ : $FL$ : $2$ : $S2, S20$ : $338$ : $338$ : $338$ : $1296$
Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR) Tank code (ADR) Vehicle for tank carriage Transport category (ADR) Special provisions for carriage - Operation (ADR) Hazard identification number (Kemler No.) Orange plates	: $1L$ : $E2$ : $P001, IBC02$ : $MP19$ : $T7$ : $TP1$ : $L4BH$ : $FL$ : $2$ : $S2, S20$ : $338$ :

Safety Data Sheet

- Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage)	: 1 L : E2 : P001 : IBC02 : T7 : TP1 : F-E : S-C
Stowage category (IMDG) Stowage and handling (IMDG) Flash point (IMDG) MFAG-No	: B : SW2 : -11°C c.c. : 132
<ul> <li>Air transport</li> <li>PCA Excepted quantities (IATA)</li> <li>PCA Limited quantities (IATA)</li> <li>PCA limited quantity max net quantity (IATA)</li> <li>PCA packing instructions (IATA)</li> </ul>	: E2 : Y340 : 0.5L : 352
PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) ERG code (IATA)	: 1L : 363 : 5L : 3CH
- Inland waterway transport Classification code (ADN) Limited quantities (ADN) Excepted quantities (ADN) Carriage permitted (ADN) Equipment required (ADN) Ventilation (ADN) Number of blue cones/lights (ADN)	: FC : 1 L : E2 : T : PP, EP, EX, A : VE01 : 1
- Rail transport Classification code (RID) Limited quantities (RID) Excepted quantities (RID) Packing instructions (RID) Mixed packing provisions (RID) Portable tank and bulk container instructions (RID) Portable tank and bulk container special	: FC : 1L : E2 : P001, IBC02 : MP19 : T7 : TP1
Portable tank and bulk container special provisions (RID) Tank codes for RID tanks (RID) Transport category (RID) Colis express (express parcels) (RID) Hazard identification number (RID)	: L4BH : 2 : CE7 : 338

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Safety Data Sheet

# **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 TRIETHYLAMINE FOR HPLC is not on the REACH Candidate List TRIETHYLAMINE FOR HPLC 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 556)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	:	Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Denmark		
Classification remarks	:	Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation	:	Young people below the age of 18 years are not allowed to use the product
		Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2.	Chemical safety assessment
No addi	tional information available

## **SECTION 16: Other information**

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

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Flam. Liq. 2	Flammable liquids, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H332	Harmful if inhaled
R11	Highly flammable

Safety Data Sheet

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed	
R35	Causes severe burns	
С	Corrosive	
F	Highly flammable	
Xn	Harmful	

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