DIETHYLAMINE FOR HPLC MSDS

CAS No: 109-89-7 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
	:
EC index no	: 612-003-00-X
EC no	: 203-716-3
CAS No	: 109-89-7
Product code	: 00101
Formula	: C4H11N
Chemical structure	H ₃ C N CH ₃

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]

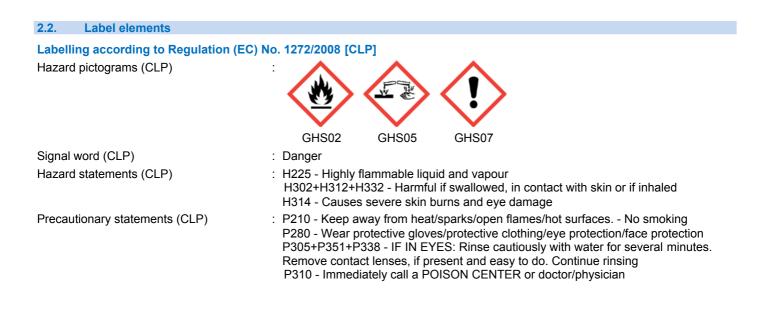
Flammable liquids, Category 2	H225
Acute toxicity (oral), Category 4	H302
Acute toxicity (dermal),	H312
Category 4 Acute toxicity (inhal.),	H332
Category 4 Skin corrosion/irritation,	H314
Category 1A	H318
Serious eye damage/eye irritation, Category 1	пэ 10

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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	: DIETHYLAMINE FOR HPLC		
CAS No	: 109-89-7		
EC no	: 203-716-3		
EC index no	: 612-003-00-X		

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

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3.2. Mixture

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
	: 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	: Corrosive to the respiratory tract.
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
4.3. Indication of any immediate med	ical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.4 Estimatic bing modia	
5.1. Extinguishing media	, dry chamical powder, cleaned registent from carbon diavide (CO2)
Suitable extinguishing media Unsuitable 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	
	equipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.
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	

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Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. 6.4. Reference to other sections No additional information available 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, including any incompatibilities Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/ equipment. Comply with applicable regulations.		
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Storage conditions : Keep in fireproof place. Keep container tightly closed.		
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 a	and chemical properties
Physical state	: Liquid
Molecular mass	: 73.14 g/mol
Colour	: Clear Colorless.
Odour	: fishy ammonical.
Odour threshold	: No data available
pH	: No data available

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Relative evaporation rate (butylacetate=1)	: 16.9
Melting point	: -50 °C
Freezing point	: No data available
Boiling point	: 55 - 58
Flash point	: -28 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable Highly flammable liquid and vapour
Vapour pressure	: 195 mm Hg at 20°C
Relative vapour density at 20 °C	: 2.5
Relative density	: No data available
Density	: 0.71 g/cm ³
Solubility	: Water: Miscible 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	: 0.018 - 0.101 vol %

9.2. Other information

No additional information available

SECTION 10: Stability 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.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

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11.1. Information on toxicological e	ffects
Acute toxicity	: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmfu if inhaled.
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
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
Additional information	: Corrosive to the respiratory tract
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Harmful if swallowed. Harmful in contact with skin.
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	· Disease of contacts (contained to
Product/Packaging disposal recommendations	: Dispose of contents/container to
Additional information	: Handle empty containers with care because residual vapours are flammable.
SECTION 14: Transport information	
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IA	.TA / ADN
14.1. UN number	
14.1. UN number UN-No. (ADR)	: 1154
UN-No. (IMDG)	: 1154
UN-No.(IATA)	: 1154
UN-No.(ADN)	: 1154
UN-No. (RID)	: 1154
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: DIETHYLAMINE
Proper Shipping Name (IMDG)	: DIETHYLAMINE
Proper Shipping Name (IATA)	: DIETHYLAMINE
Proper Shipping Name (ADN)	: DIETHYLAMINE
Proper Shipping Name (RID)	: DIETHYLAMINE
Transport document description (ADR)	: UN 1154 DIETHYLAMINE, 3 (8), II, (D/E)
Transport document description (IMDG)	: UN 1154 DIETHYLAMINE, 3 (8), II (-39°C c.c.)
Transport document description (IATA)	: UN 1154 DIETHYLAMINE, 3 (8), II
Transport document description (ADN)	: UN 1154 DIETHYLAMINE, 3 (8), II
Transport document description (RID)	: UN 1154 DIETHYLAMINE, 3 (8), II
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 3 (8)

: 3, 8

1



IMDG

Danger labels (ADR)

Transport hazard class(es) (IMDG) Danger labels (IMDG)





IATA Transport hazard class(es) (IATA)

: 3 (8)

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Hazard labels (IATA)	: 3, 8
ADN	
Transport hazard class(es) (ADN)	: 3 (8)
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)	: 11
Packing group (IMDG)	: 11
Packing group (IATA)	: 11
Packing group (ADN)	
Packing group (RID)	: 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)	: E2
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special	: TP1

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Hazard identification number (Kemler No.)	: 338
Orange plates	
	338
	1154
Tuppel restriction and (ADD)	
Tunnel restriction code (ADR) EAC code	: D/E : •2WE
APP code	: •2vvE : A(fl)
AFF COUE	. A(II)
- Transport by sea	
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-C
Stowage category (IMDG)	: E
Stowage and handling (IMDG)	: SW2
Flash point (IMDG)	: -39°C c.c.
MFAG-No	: 132
- Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y340
PCA limited quantity max net quantity	: 0.5L
(IATA)	
PCA packing instructions (IATA)	: 352
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 363
CAO max net quantity (IATA)	: 5L
ERG code (IATA)	: 3CH
 Inland waterway transport 	
Classification code (ADN)	: FC
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1
- Rail transport	
Classification code (RID)	: FC
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: L4BH
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
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Hazard identification number (RID) : 338

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

DIETHYLAMINE FOR HPLC is not on the REACH Candidate List DIETHYLAMINE 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 248)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (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 additional 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
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H225	Highly flammable liquid and vapour

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H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H332	Harmful if inhaled
R11	Highly flammable
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