

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAł 400062, MH, INDIA. CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

MATERIAL SAFETY DATA SHEET (MSDS)

DIETHYLAMINE HPLC

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier		
Trade name	: DIETHYLAMINE HPLC	
Product code	: SS0107602500	
Identification of the product	: Diethylamine CAS No :109-89-7 EC No :203-716-3 Annex No :612-003-00-X	
Chemical formula	: C4H11N	
1.2. Relevant identified uses of the substance or mixture and uses advised against		
Use	: Industrial. For professional use only.	
1.3. Details of the supplier of the safety data sheet		
Company identification	SUVCHEM Chaitanya Tower, 2nd Floor, Office # 206, Siddharth Nagar, S.V. Road, Goregaon (West), Mumbai - 400062, Maharashtra, India. Contact: +91 22 28725393 / 94 / 95 Emoil ID: ifo@uwaham.com/corre@uwaham.com	
1.4. Emergency telephone number	Email ID: info@suvchem.com/care@suvchem.com	
Phone no.	: + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [Office hours]	

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

 Classification
 : F; R11

 Xn; R20/21/22
 C; R35

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards

: Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302 Acute toxicity, dermal - Category 4 - Warning (CLP : Acute Tox. 4) H312 Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318 Skin corrosion - Category 1A - Danger (CLP : Skin Corr. 1A) H314 Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332



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2. Hazards identification -DSD (conti	nued)
Physical hazards	: Flammable liquids - Category 2 - Danger (CLP : Flam. Liq. 2) H225
2.2. Label elements	
Labelling EC 67/548 or EC 1999/45	
Symbol(s)	
Symbol(s)	: F : Highly flammable C : Corrosive
R Phrase(s)	: R11 : Highly flammable. R20/21/22 : Harmful by inhalation, in contact with skin and if swallowed. R35 : Causes severe burns.
S Phrase(s)	 S1/2 : Keep locked up and out of reach of children. S3 : Keep in a cool place. S16 : Keep away from sources of ignition - No smoking. S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S29 : Do not empty into drains. S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection. S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).
Contains	: Diethylamine
Labelling Regulation EC 1272/2008 (C	<u>LP)</u>
Hazard pictograms	
Signal words	: Danger
Hazard statements	 H225 : Highly flammable liquid and vapour. H314 : Causes severe skin burns and eye damage. H302 : Harmful if swallowed. H312 : Harmful in contact with skin. H332 : Harmful if inhaled.
Precautionary statements	
• General	: P102: Keep out of reach of children. P103: Read label before use. P101: If medical advice is needed, have product container or label at hand.
Prevention	 P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical, ventilating, lighting,, equipment. P210: Keep away from heat, sparks, open flames or hot surfaces No smoking. P280: Wear protective gloves, protective clothing, eye protection, face protection.



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2. Hazards identification -DSD (continued)	
	P271: Use only outdoors or in a well-ventilated area. P260: Do not breathe dust, fume, gas, mist, vapours, spray. P233: Keep container tightly closed. P264: Wash thoroughly after handling. P270: Do not eat, drink or smoke when using this product.
• Response	 P302+P352: IF ON SKIN : Wash with plenty of soap and water. P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting. P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing. P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower. P363: Wash contaminated clothing before reuse. P370+P378: In case of fire: Use for extinction.
Storage	: P403+P235: Store in well-ventilated place. Keep cool. P405: Store locked up.
 Disposal considerations 	: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Contains	: Diethylamine
2.3. Other hazards	
Other hazards	: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients Substance / Preparation : Diethylamine CAS No :109-89-7 EC No :203-716-3 Annex No :612-003-00-X Substance. Substance name Contents CAS No EC No Annex No REACH Ref. Classification F; R11 Xn; R20/21/22 C; R35 Diethylamine 100 % 109-89-7 203-716-3 612-003-00-X ----Flam. Liq. 2 _ H225 Skin Corr. 1A+ _ H314 Eye Dam 1 _ H318 Acute Tox. 4 (skin) _ H312 Acute Tox. 4 (inhal) _ H332 Acute Tox. 4 (oral) _ H302

Contains no other components or impurities which will influence the classification of the product.



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4. First aid measures		
4.1. Description of first aid meas	ures	
Inhalation	: Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing. Specific treatment is urgent (see on this label).	
Skin contact	: Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Specific treatment (see on this label).	
Eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. Specific treatment (see on this label). Rinse cautiously with water for several minutes.	
Ingestion	: Specific treatment (see on this label). Immediately call a POISON CENTER or doctor. Call a POISON CENTER or doctor if you feel unwell. Do NOT induce vomiting. Rinse mouth.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms relating to use	 Causes severe skin burns and eye damage. Causes serious eye damage. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Danger of serious damage to health by prolonged exposure through inhalation. Swallowing a small quantity of this material will result in serious health hazard. Corrosive to respiratory tract. 	
4.3. Indication of any immediate medical attention and special treatment needed		
General information	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).	
5. Fire-fighting measures		
5.1. Extinguishing media		

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.	
Unsuitable extinguishing media	: Do not use a heavy water stream.	
Surrounding fires	: Use water spray or fog for cooling exposed containers.	
5.2. Special hazards arising from the substance or mixture		
Flammable class	: Highly flammable liquid and vapour.	
Hazardous combustion products	: Under fire conditions, hazardous fumes will be present.	
5.3. Advice for fire-fighters	Thermal decomposition generates : Corrosive vapours.	



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5. Fire-fighting measures (continue	ed)	
Protection against fire	: Do not enter fire area without proper protective equipment, including respiratory protection.	
Special procedures	: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.	
6. Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
For emergency responders	: Equip cleanup crew with proper protection. Ventilate area.	
Technical measures	: Use special care to avoid static electric charges.	
Special precautions	: Remove ignition sources. No naked lights. No smoking.	
For non-emergency personnel	: Evacuate unnecessary personnel.	
6.2. Environmental precautions		
Environmental precautions	: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.	
6.3. Methods and material for containment and cleaning up		
Clean up methods	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.	
6.4. Reference to other sections		
See section 8. Exposure controls/pers	onal protection	
7. Handling and storage		
7.1. Precautions for safe handling		
Handling	: Handle empty containers with care because residual vapours are flammable. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Do not breathe dust, fume, gas, mist, vapours, spray. Avoid contact during pregnancy or while nursing. Wash thoroughly after handling.	
Technical protective measures	: Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, ventilating, lighting,, equipment.	
Special precautions	: No naked lights. No smoking.	

7.2. Conditions for safe storage, including any incompatibilities



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	Do not store in corrodable metal. Ground/bond container and receiving equipmen Keep container tightly closed.
Storage regulation	: Comply with applicable regulations.
Storage - away from	: Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.
<u>7.3. Specific end use(s)</u>	
Specific end use(s)	: None.

8.1. Exposure controls

Personal protection	: Avoid all unnecessary exposure.
 Respiratory protection 	: In case of insufficient ventilation, wear suitable respiratory equipment.
 Hand protection 	: Wear protective gloves.
 Skin protection 	: Wear suitable protective clothing.
 Eye protection 	: Chemical goggles or face shield.
• Others	: When using, do not eat, drink or smoke.
8.2. Control parameters	
Occupational Exposure Limits	: No data available.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C	: Liquid.
Colour	: Clear Colorless
Odour	: Fishy ammonical
Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: -50°C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: N/A
Flammability (solid, gas)	: Flammable. Highly flammable liquid and vapour.



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9. Physical and chemical properties (continued)

Flash point [°C]	: (-28 °C)
Boiling point [°C]	: 55- 58°C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: 16,9
Vapour pressure [20°C]	: 195 mm Hg @ 20°C
Vapour pressure mm/Hg	: N/A
Vapour density	: 2,5
Density [g/cm3]	: 0,71
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Miscible.
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: Strong alkalis.
Viscosity at 40°C [mm2/s]	: N/A
9.2. Other information	
Explosive properties	: N/A
Explosion limits - upper [%]	: 10,10%
Explosion limits - lower [%]	: 1,80%
Oxidising properties	: No data available.

10. Stability and reactivity

<u>10.1. Reactivity</u>		
Reactivity	: Not established.	
<u>10.2. Chemical stability</u>		
Chemical stability	: Stable under recommended storage conditions.	
10.3. Possibility of hazardous reactions		
Hazardous reactions	: Not established.	
10.4. Conditions to avoid		
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures. Open flame.	



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10. Stability and reactivity (continued)

10.5. Incompatible materials

Materials to avoid

: Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide. May release flammable gases. Thermal decomposition generates : Corrosive vapours.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity	
Inhalation	: Harmful if inhaled.
• Dermal	: Harmful in contact with skin.
 Ingestion 	: Harmful if swallowed.
Corrosion	 Causes severe skin burns and eye damage. Causes serious eye damage. Corrosive to respiratory tract.
Irritation	: Based on available data, the classification criteria are not met.
Sensitization	: Based on available data, the classification criteria are not met.
Mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Toxic for reproduction	: Based on available data, the classification criteria are not met.
STOT-single exposure	: Based on available data, the classification criteria are not met.
STOT-repeated exposure	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.

12. Ecological information

<u>12.1. Toxicity</u>	
Toxicity information	: Not established.
<u> 12.2. Persistence - degradability</u>	
Persistence - degradability	: Biodegradable.
12.3. Bioaccumulative potential	



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12. Ecological information (continued)			
Bioaccumulative potential	: Not established.		
<u>12.4. Mobility in soil</u>			
Mobility in soil	: Not established.		
12.5. Results of PBT and vPvB assessment			
Results of PBT and vPvB assess	ment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.		
12.6. Other adverse effects			
Environmental precautions	: Avoid release to the environment.		
13. Disposal considerations			
13.1. Waste treatment methods			
General	: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection		
Special precautions	point, in accordance with local, regional, national and/or international regulation. : Handle empty containers with care because residual vapours are flammable.		
14. Transport information			
14.1. Land transport (ADR-RID)			
Proper shipping name	: DIETHYLAMINE		
UN N°	: 1154		
H.I. nr	: 338		
ADR - Class	: 3		
Labelling - Transport	: 3 : Flammable liquid. 8 : Corrosive substance.		

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ADR - Classification code	: FC
ADR - Group	: 11
ADR - Packing instructions	: P001



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14. Transport information (continued)

ADR - Limited Quantity ADR - Tunnel code



:1L

: D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

Proper shipping name	: DIETHYLAMINE
UN N°	: 1154
IMO-IMDG - Class or division	: 3 : Flammable liquid. (8 : Corrosive substance.)
IMO-IMDG - Packing group	: II
IMO- IMDG - Packing instructions	: P001
IMO-IMDG - Limited quantities	: 1L
IMO-IMDG - Marine pollution	: No
EMS-Nr	: F-E S-C

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name	: DIETHYLAMINE
UN N°	: 1154
IATA - Class or division	: 3 : Flammable liquid. (8 : Corrosive substance.)
IATA - Packing group	: II
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 352
- Passenger and Cargo - Maximum Quantity/Packing	: 1 L
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 363
- Cargo only - Maximum Quantity/ Packing	: 5 L
IATA - Limited Quantites	: 0.5 L
ERG-Nr	: 3CH

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture



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In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation (CE) Nº 1272/2008

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 the material by a properly trained person using this product.

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