

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

MATERIAL SAFETY DATA SHEET (MSDS)
ETHYLAMINE SOLUTION 70%
1. Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier

Trade name : ETHYLAMINE SOLUTION 70%

Product code : SS0116700500

Identification of the product : Ethylamine
 CAS No :75-04-7
 EC No :200-834-7
 Annex No :612-002-00-4

Chemical formula : C₂H₇N

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
 Email ID: info@suvchem.com/care@suvchem.com

1.4. Emergency telephone number

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
 C; R35
 Xi; R37

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

Health hazards : Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -
 Category 3 - Warning (CLP : STOT SE 3) H335
 Skin corrosion - Category 1A - Danger (CLP : Skin Corr. 1A) H314

Physical hazards : Flammable gases - Category 1 - Danger (CLP : Flam. Gas 1) H220
 Gases under pressure - Liquefied gas - Warning (CLP : Press. Gas) H280

MATERIAL SAFETY DATA SHEET (MSDS)
ETHYLAMINE SOLUTION 70%
2. Hazards identification -DSD (continued)
2.2. Label elements
Labelling EC 67/548 or EC 1999/45
Symbol(s)

Symbol(s)

: F+ : Extremely flammable
 Xi : Irritant

R Phrase(s)

: R11 : Highly flammable.
 R35 : Causes severe burns.
 R37 : Irritating to respiratory system.

S Phrase(s)

: 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.
 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

: Ethylamine

Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms

Signal words

: Danger

Hazard statements

: H220 : Extremely flammable gas.
 H280 : Contains gas under pressure; may explode if heated.
 H314 : Causes severe skin burns and eye damage.
 H335 : May cause respiratory irritation.

Precautionary statements
• Prevention

: P280: Wear protective gloves, protective clothing, eye protection, face protection.
 P260: Do not breathe dust, fume, gas, mist, vapours, spray.

• Response

: P381: Eliminate all ignition sources if safe to do so.
 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.
 P377: Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
 P363: Wash contaminated clothing before reuse.

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MATERIAL SAFETY DATA SHEET (MSDS)

ETHYLAMINE SOLUTION 70%

2. Hazards identification -DSD (continued)

- **Storage** : P403+P233: Store in well-ventilated place. Keep container tightly closed.
 P410+P403: Protect from sunlight. Store in well-ventilated place.
 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** : Ethylamine

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 : Ethylamine
 CAS No : 75-04-7
 EC No : 200-834-7
 Annex No : 612-002-00-4
 Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Ethylamine	: 100 %	75-04-7	200-834-7	612-002-00-4	----	F+ R11 C; R35 Xi; R37 Flam. Gas 1 _ H220 Skin Corr. 1A _ H314 STOT SE 3 _ H335 Press. Gas _ H280

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

4. First aid measures

4.1. Description of first aid measures

- Inhalation** : Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.
- Skin contact** : Immediately call a POISON CENTER or doctor. Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing.
- 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.
- Ingestion** : Immediately call a POISON CENTER or doctor. 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. May cause respiratory irritation.

MATERIAL SAFETY DATA SHEET (MSDS)
ETHYLAMINE SOLUTION 70%
4. First aid measures (continued)
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 : Extremely flammable gas.
Hazardous combustion products : Under fire conditions, hazardous fumes will be present.
 Thermal decomposition generates : Corrosive vapours.

5.3. Advice for fire-fighters

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. Eliminate all ignition sources if safe to do so. Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

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. Eliminate every possible source of ignition. No naked lights. No smoking.
Special precautions : Remove ignition sources.
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.

MATERIAL SAFETY DATA SHEET (MSDS)
ETHYLAMINE SOLUTION 70%
6. Accidental release measures (continued)
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. On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. Collect spillage.

6.4. Reference to other sections

See section 8. Exposure controls/personal 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. Wash thoroughly after handling. Avoid contact during pregnancy or while nursing. Do not breathe dust, fume, gas, mist, vapours, spray.

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed.

Special precautions : No naked lights. No smoking. Avoid breathing dust, fume, gas, mist, vapours, spray.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep in fireproof place. Keep container tightly closed.
Store in well-ventilated place.

Storage regulation : Comply with applicable regulations.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.
Direct sunlight.

7.3. Specific end use(s)

Specific end use(s) : None.

8. Exposure controls/personal protection
8.1. Exposure controls

Personal protection : Avoid all unnecessary exposure.

• **Respiratory protection** : Wear approved mask.

MATERIAL SAFETY DATA SHEET (MSDS)
ETHYLAMINE SOLUTION 70%
8. Exposure controls/personal protection (continued)

- 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	: Colourless to Light yellow
Odour	: Ammonia like odour
Odour threshold	: No data available.
pH value	: No data available. Not applicable.
Melting point [°C]	: -74 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 3750C
Flammability (solid, gas)	: Flammable.
Flash point [°C]	: -26 °C
Boiling point [°C]	: 380C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: 50 mm Hg @ 20 deg C
Vapour density	: 1,56
Density [g/cm3]	: 0,8
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: 0.796 g/cm3
Solubility in water [% weight]	: In water, material soluble.
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: > 14 at 20 °C

MATERIAL SAFETY DATA SHEET (MSDS)**ETHYLAMINE SOLUTION 70%****9. Physical and chemical properties (continued)**Viscosity at 40°C [mm²/s] : N/A**9.2. Other information**

Explosive properties : N/A
Explosion limits - upper [%] : 12,80%
Explosion limits - lower [%] : 3%
Oxidising properties : No data available.

10. Stability and reactivity**10.1. Reactivity**

Reactivity : Not established.

10.2. Chemical stability

Chemical stability : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Not established.

10.4. Conditions to avoidConditions to avoid : Direct sunlight. Extremely high or low temperatures. Open flame. Overheating.
Heat. Sparks.**10.5. Incompatible materials**

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition productsHazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.
Thermal decomposition generates : Corrosive vapours.**11. Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

• Inhalation : Based on available data, the classification criteria are not met.

MATERIAL SAFETY DATA SHEET (MSDS)
ETHYLAMINE SOLUTION 70%
11. Toxicological information (continued)

• Dermal	: Based on available data, the classification criteria are not met.
• Ingestion	: Based on available data, the classification criteria are not met.
Corrosion	: Causes severe skin burns and eye damage.
Irritation	: May cause respiratory irritation.
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
12.1. Toxicity

Toxicity information : Not established.

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : 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

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13. Disposal considerations (continued)

- 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 point, in accordance with local, regional, national and/or international regulation.
- Special precautions** : Handle empty containers with care because residual vapours are flammable.

14. Transport information
14.1. Land transport (ADR-RID)

- Proper shipping name** : ETHYLAMINE, AQUEOUS SOLUTION with not less than 50% but not more than 70% ethylamine
- UN N°** : 2270
- H.I. nr** : 338
- ADR - Class** : 3
- Labelling - Transport** : 3 : Flammable liquid. 8 : Corrosive substance.



- ADR - Classification code** : FC
- ADR - Group** : II
- ADR - Packing instructions** : P001
- ADR - Limited Quantity** : 1 L
- ADR - Tunnel code** : 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** : ETHYLAMINE, AQUEOUS SOLUTION with not less than 50% but not more than 70% ethylamine
- UN N°** : 2270
- 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** : 1 L

MATERIAL SAFETY DATA SHEET (MSDS)
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14. Transport information (continued)

IMO-IMDG - Marine pollution : No
 EMS-Nr : F-E S-C

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

Proper shipping name : ETHYLAMINE, AQUEOUS SOLUTION with not less than 50% but not more than 70% ethylamine
 UN N° : 2270
 IATA - Class or division : 3 : Flammable liquid. (8 : Corrosive substance.)
 IATA - Packing group : II
 IATA - Passenger and Cargo Aircraft : ALLOWED
 - Passenger and Cargo - Packing : 352
 instruction
 - Passenger and Cargo - Maximum : 1 L
 Quantity/Packing
 IATA - Cargo only : ALLOWED
 - Cargo only - Packing instruction : 363
 - Cargo only - Maximum Quantity/ : 5 L
 Packing
 IATA - Limited Quantities : 0.5 L
 ERG-Nr : 3CH

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

Safety, health and environmental : Ensure all national/local regulations are observed.
 regulations/legislation specific for the substance or mixture
 REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.
 REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

16. Other information

Revision : Revision - See : *
 Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.
 vPvB: very persistent and very bioaccumulative
 Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of

MATERIAL SAFETY DATA SHEET (MSDS)

ETHYLAMINE SOLUTION 70%

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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