

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.
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MATERIAL SAFETY DATA SHEET (MSDS)

1,2-DICHLOROETHANE AR (ETHYLENE CHLORIDE)

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

1.1. Product identifier

Trade name : 1,2-DICHLOROETHANE AR (ETHYLENE CHLORIDE)

Product code : SS0115500500

Identification of the product : 1,2-Dichloroethane
CAS No :107-06-2
EC No :203-458-1
Annex No :602-012-00-7

Chemical formula : C₂H₄Cl₂

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
Carc. Cat. 2; R45
Xn; R22
Xi; R36/37/38

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

Health hazards : Carcinogenicity - Category 1B - Danger (CLP : Carc. 1B) H350
Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -
Category 3 - Warning (CLP : STOT SE 3) H335
Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315
Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319
Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302

MATERIAL SAFETY DATA SHEET (MSDS)
1,2-DICHLOROETHANE AR (ETHYLENE CHLORIDE)
2. Hazards identification -DSD (continued)

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
T : Toxic

R Phrase(s) : R45 : May cause cancer.
R11 : Highly flammable.
R22 : Harmful if swallowed.
R36/37/38 : Irritating to eyes, respiratory system and skin.

S Phrase(s) : S53 : Avoid exposure - obtain special instructions before use.
S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

Contains : 1,2-Dichloroethane

Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms


Signal words : Danger

Hazard statements : H225 : Highly flammable liquid and vapour.
H350 : May cause cancer.
H302 : Harmful if swallowed.
H319 : Causes serious eye irritation.
H315 : Causes skin irritation.
H335 : May cause respiratory irritation.

Precautionary statements

- **General** : P201: Obtain special instructions before use.
- **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.
P271: Use only outdoors or in a well-ventilated area.
P261: Avoid breathing 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.

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MATERIAL SAFETY DATA SHEET (MSDS)

1,2-DICHLOROETHANE AR (ETHYLENE CHLORIDE)

2. Hazards identification -DSD (continued)

- Response** : P302+P352: IF ON SKIN : Wash with plenty of soap and water.
 P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.
 P308+P313: If exposed or concerned : get medical advice.
 P332+P313: If skin irritation occurs : Get medical advice.
 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+P233: Store in well-ventilated place. Keep container tightly closed.
 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.
 - Special labelling** : Restricted to professional users. (Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008)
 - Contains** : 1,2-Dichloroethane
- 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 : 1,2-Dichloroethane
 CAS No :107-06-2
 EC No :203-458-1
 Annex No :602-012-00-7
 Substance.

| Substance name | Contents | CAS No | EC No | Annex No | REACH Ref. | Classification |
|--------------------|----------|----------|-----------|--------------|------------|---|
| 1,2-Dichloroethane | 100 % | 107-06-2 | 203-458-1 | 602-012-00-7 | --- | F; R11 Carc. Cat. 2; R45 Xn; R22 Xi; R36/37/38 ----- Flam. Liq. 2 _ H225 Carc. 1B _ H350 Acute Tox. 4 (oral) _ H302 Eye irrit. 2 _ H319 Skin Irrit. 2 _ H315 STOT SE 3 _ H335 |

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

MATERIAL SAFETY DATA SHEET (MSDS)

1,2-DICHLOROETHANE AR (ETHYLENE CHLORIDE)

4. First aid measures

4.1. Description of first aid measures

| | |
|---------------------|---|
| Inhalation | : Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing. |
| Skin contact | : Specific treatment (see on this label). Get medical advice. If skin irritation occurs : Wash contaminated clothing before reuse. Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. |
| Eye contact | : Get medical advice. If eye irritation persists : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. |
| Ingestion | : Obtain emergency medical attention. 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 | : May cause cancer. Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. Swallowing a small quantity of this material will result in serious health hazard. |
|---------------------------------|--|

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

| | |
|--------------------------------|--|
| 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. |

MATERIAL SAFETY DATA SHEET (MSDS)

1,2-DICHLOROETHANE AR (ETHYLENE CHLORIDE)

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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|------------------------------------|--|
| 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

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|-------------------------|--|
| 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/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. Obtain special instructions before use. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. |
| 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. 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. Ground/bond container and receiving equipment. Keep container tightly closed. |
| Storage - away from | : Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources. |

7.3. Specific end use(s)

MATERIAL SAFETY DATA SHEET (MSDS)
1,2-DICHLOROETHANE AR (ETHYLENE CHLORIDE)
7. Handling and storage (continued)

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.
- Hand protection : Wear protective gloves.
- Skin protection : Wear suitable protective clothing.
- Eye protection : Chemical goggles or safety glasses.
- 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 : Chloroform-like odor

Odour threshold : No data available.

pH value : No data available.

Melting point [°C] : -35°C

Decomposition point [°C] : N/A

Critical temperature [°C] : N/A

Auto-ignition temperature [°C] : 413°C

Flammability (solid, gas) : Highly flammable liquid and vapour.
Flammable.

Flash point [°C] : 13°C

Boiling point [°C] : 82- 84°C

Initial boiling point [°C] : 82°C

Final boiling point [°C] : 84°C

Evaporation rate : N/A

Vapour pressure [20°C] : 86 hPa at 20 °C

Vapour pressure mm/Hg : N/A

MATERIAL SAFETY DATA SHEET (MSDS)
1,2-DICHLOROETHANE AR (ETHYLENE CHLORIDE)
9. Physical and chemical properties (continued)

| | |
|--|-----------------------------------|
| Vapour density | : N/A |
| Density [g/cm ³] | : 1,24 |
| Relative density, gas (air=1) | : N/A |
| Relative density, liquid (water=1) | : 1.25 g/cm ³ at 20 °C |
| Solubility in water [% weight] | : 8.69 g/l at 20 °C |
| Solubility in water | : N/A |
| Log Pow octanol / water at 20°C | : No data available. |
| Solubility | : N/A |
| Viscosity at 40°C [mm ² /s] | : N/A |

9.2. Other information

| | |
|------------------------------|----------------------|
| Explosive properties | : N/A |
| Explosion limits - upper [%] | : 16,20% |
| Explosion limits - lower [%] | : 6,20% |
| 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. |
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10.3. Possibility of hazardous reactions

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|---------------------|--------------------|
| Hazardous reactions | : Not established. |
|---------------------|--------------------|

10.4. Conditions to avoid

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|---------------------|--|
| Conditions to avoid | : Direct sunlight. Extremely high or low temperatures. Open flame. |
|---------------------|--|

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. |
|----------------------------------|---|

MATERIAL SAFETY DATA SHEET (MSDS)
1,2-DICHLOROETHANE AR (ETHYLENE CHLORIDE)
11. Toxicological information
11.1. Information on toxicological effects
Acute toxicity

- Inhalation : Based on available data, the classification criteria are not met.
- Dermal : Based on available data, the classification criteria are not met.
- Ingestion : Harmful if swallowed.

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

Irritation : Causes serious eye irritation.
 Causes skin 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 : May cause cancer.

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

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MATERIAL SAFETY DATA SHEET (MSDS)

1,2-DICHLOROETHANE AR (ETHYLENE CHLORIDE)

12. Ecological information (continued)

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 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 : ETHYLENE DICHLORIDE
UN N° : 1184
H.I. nr : 336
ADR - Class : 3
Labelling - Transport : 3 : Flammable liquid. 6.1 : Toxic substances.



ADR - Classification code : FT1
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 : ETHYLENE DICHLORIDE
UN N° : 1184

MATERIAL SAFETY DATA SHEET (MSDS)
1,2-DICHLOROETHANE AR (ETHYLENE CHLORIDE)
14. Transport information (continued)

| | |
|----------------------------------|---|
| IMO-IMDG - Class or division | : 3 : Flammable liquid. (6.1 : Toxic substances.) |
| IMO-IMDG - Packing group | : II |
| IMO- IMDG - Packing instructions | : P001 |
| IMO-IMDG - Limited quantities | : 1 L |
| IMO-IMDG - Marine pollution | : No |
| EMS-Nr | : F-E S-D |

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

| | |
|--|---|
| Proper shipping name | : ETHYLENE DICHLORIDE |
| UN N° | : 1184 |
| IATA - Class or division | : 3 : Flammable liquid. (6.1 : Toxic substances.) |
| 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 | : 364 |
| - Cargo only - Maximum Quantity/Packing | : 60 L |
| IATA - Limited Quantites | : 1 L |
| ERG-Nr | : 3P |

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

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

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MATERIAL SAFETY DATA SHEET (MSDS)

1,2-DICHLOROETHANE AR (ETHYLENE CHLORIDE)

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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