

MATERIAL SAFETY DATA SHEET (MSDS)

1,2-DICHLOROETHANE LR (ETHYLENE CHLORIDE)

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

1.1. Product identifier

Trade name	: 1,2-DICHLOROETHANE LR (ETHYLENE CHLORIDE)
Product code	: SS0115400500
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
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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
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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
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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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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.

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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.
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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).
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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.

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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.
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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.
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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)

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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

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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.
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10.2. Chemical stability

Chemical stability	: Stable under recommended storage conditions.
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10.3. Possibility of hazardous reactions

Hazardous reactions	: Not established.
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10.4. Conditions to avoid

Conditions to avoid	: Direct sunlight. Extremely high or low temperatures. Open flame.
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10.5. Incompatible materials

Materials to avoid	: Strong acids. Strong bases.
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10.6. Hazardous decomposition products

Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide. May release flammable gases.
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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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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

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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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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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