

## 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 : SS0115402500

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 : C<sub>2</sub>H<sub>4</sub>Cl<sub>2</sub>

##### 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

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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.

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
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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.

## MATERIAL SAFETY DATA SHEET (MSDS)

### 1,2-DICHLOROETHANE LR (ETHYLENE CHLORIDE)

#### 4. First aid measures

##### 4.1. Description of first aid measures

<b>Inhalation</b>	: Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing.
<b>Skin contact</b>	: 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.
<b>Eye contact</b>	: 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.
<b>Ingestion</b>	: 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

<b>Symptoms relating to use</b>	: 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

<b>General information</b>	: 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

<b>Suitable extinguishing media</b>	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
<b>Unsuitable extinguishing media</b>	: Do not use a heavy water stream.
<b>Surrounding fires</b>	: Use water spray or fog for cooling exposed containers.

##### 5.2. Special hazards arising from the substance or mixture

<b>Flammable class</b>	: Highly flammable liquid and vapour.
<b>Hazardous combustion products</b>	: Under fire conditions, hazardous fumes will be present.

##### 5.3. Advice for fire-fighters

<b>Protection against fire</b>	: Do not enter fire area without proper protective equipment, including respiratory protection.
<b>Special procedures</b>	: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

## MATERIAL SAFETY DATA SHEET (MSDS)

### 1,2-DICHLOROETHANE LR (ETHYLENE CHLORIDE)

#### 6. Accidental release measures

##### 6.1. Personal precautions, protective equipment and emergency procedures

<b>For emergency responders</b>	: Equip cleanup crew with proper protection. Ventilate area.
<b>Technical measures</b>	: Use special care to avoid static electric charges.
<b>Special precautions</b>	: Remove ignition sources. No naked lights. No smoking.
<b>For non-emergency personnel</b>	: Evacuate unnecessary personnel.

##### 6.2. Environmental precautions

<b>Environmental precautions</b>	: 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

<b>Clean up methods</b>	: 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

<b>Handling</b>	: 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.
<b>Technical protective measures</b>	: 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.
<b>Special precautions</b>	: No naked lights. No smoking. Avoid breathing dust, fume, gas, mist, vapours, spray.

##### 7.2. Conditions for safe storage, including any incompatibilities

<b>Storage</b>	: 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.
<b>Storage - away from</b>	: 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

**MATERIAL SAFETY DATA SHEET (MSDS)**
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**9. Physical and chemical properties (continued)**

Vapour density	: N/A
Density [g/cm <sup>3</sup> ]	: 1,24
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: 1.25 g/cm <sup>3</sup> 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 <sup>2</sup> /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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### 1,2-DICHLOROETHANE LR (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)**
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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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**1,2-DICHLOROETHANE LR (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.

**End of document**