

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)**1,1,2,2-TETRACHLOROETHANE AR****1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name : 1,1,2,2-TETRACHLOROETHANE AR

Product code : SS0118800500

Identification of the product : 1,1,2,2-Tetrachloroethane
CAS No: 79-34-5
EC No :201-197-8
Annex No :602-015-00-3

Chemical formula : C₂H₂Cl₄

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 : T+; R26/27
N; R51-53

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

Health hazards : Acute toxicity, dermal - Category 1 - Danger (CLP : Acute Tox. 1) H310
Acute toxicity, Inhalation - Category 2 - Danger (CLP : Acute Tox. 2) H330

Environmental hazards : Hazardous to the aquatic environment - Chronic hazard - Category 2 (CLP :
Aquatic Chronic 2) H411

2.2. Label elements**Labelling EC 67/548 or EC 1999/45**

1,1,2,2-TETRACHLOROETHANE AR

2. Hazards identification -DSD (continued)

MATERIAL SAFETY DATA SHEET (MSDS)

Symbol(s)



Symbol(s)

 : T+ : Very toxic
 N : Dangerous for the environment

R Phrase(s)

 : R26/27 : Very toxic by inhalation and in contact with skin.
 R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrase(s)

 : S1/2 : Keep locked up and out of reach of children.
 S38 : In case of insufficient ventilation, wear suitable respiratory equipment.
 S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).
 S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

Contains

: 1,1,2,2-Tetrachloroethane

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms



Signal words

: Danger

Hazard statements

 : H310 : Fatal in contact with skin.
 H330 : Fatal if inhaled.
 H411 : Toxic to aquatic life with long lasting effects.

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

 : P284: Wear respiratory protection.
 P280: Wear protective gloves, protective clothing, eye protection, face protection.
 P271: Use only outdoors or in a well-ventilated area.
 P260: Do not breathe dust, fume, gas, mist, vapours, spray.
 P273: Avoid release to the environment.
 P264: Wash thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.

• Response

 : P391: Collect spillage.
 P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.
 P302+P350: IF ON SKIN : Gently wash with plenty of soap and water.
 P363: Wash contaminated clothing before reuse.
 P361: Remove immediately all contaminated clothing.

• Storage

 : P403+P233: Store in well-ventilated place. Keep container tightly closed.
 P405: Store locked up.

1,1,2,2-TETRACHLOROETHANE AR

2. Hazards identification -DSD (continued)

• **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.
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Contains 1,1,2,2-Tetrachloroethane
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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.

MATERIAL SAFETY DATA SHEET (MSDS)

3. Composition/information on ingredients

Substance / Preparation : 1,1,2,2-Tetrachloroethane

EC No :201-197-8
Annex No :602-015-00-3
Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
1,1,2,2-Tetrachloroethane	100 %	79-34-5	201-197-8	602-015-00-3	----	T+; R26/27 N; R51-53 ----- Acute Tox. 1 (skin) _ H310 Acute Tox. 2 (inhal) _ H330 Aquatic Chronic 2 _ H411

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 : Assure fresh air breathing. Allow the victim to rest. Immediately call a POISON CENTER or doctor. Specific treatment is urgent (see on this label). Remove to fresh air and keep at rest in a position comfortable for breathing.

Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Specific treatment (see on this label). Wash with plenty of soap and water. Immediately call a POISON CENTER or doctor. Remove/ Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

Ingestion : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms relating to use : Fatal in contact with skin.
Fatal if inhaled.

4.3. Indication of any immediate medical attention and special treatment needed

1,1,2,2-TETRACHLOROETHANE AR

4. First aid measures (continued)

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

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.

6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

For emergency responders : Equip cleanup crew with proper protection.
Ventilate area.

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.
Avoid release to the environment.

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. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

1,1,2,2-TETRACHLOROETHANE AR**7. Handling and storage****7.1. Precautions for safe handling**

Handling : Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Do not breathe dust, fume, gas, mist, vapours, spray. Use only outdoors or in a well-ventilated area.

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities

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

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

7.3. Specific end use(s) : None.
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Specific end use(s) : None.

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8. Exposure controls/personal protection

8.1. Exposure controls

Personal protection : Avoid all unnecessary exposure.

- **Respiratory protection** : Wear respiratory protection.
- **Hand protection** : Wear protective gloves.
- **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] : -43 °C

Decomposition point [°C] : N/A

1,1,2,2-TETRACHLOROETHANE AR

9. Physical and chemical properties (continued)

Critical temperature [°C] : N/A

Auto-ignition temperature [°C] : N/A

Flammability (solid, gas) : N/A

Flash point [°C] : N/A

Boiling point [°C] : 147 °C

Initial boiling point [°C] : N/A

Final boiling point [°C] : N/A

Evaporation rate : 0,65

Vapour pressure [20°C] : 10.7 hPa at 20°C

Vapour pressure mm/Hg : N/A

Vapour density : 5,8
Density [g/cm3] : 1,59
Relative density, gas (air=1) : N/A
Relative density, liquid (water=1) : N/A
Solubility in water [% weight] : Slight, 0.3 g/100g w
Solubility in water : N/A
Log Pow octanol / Water at 20°C : No data available.
Solubility : N/A
Viscosity at 40°C [mm2/s] : N/A

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MATERIAL SAFETY DATA SHEET (MSDS)

9.2. Other information

Explosive properties : N/A
Explosion limits - upper [%] : N/A
Explosion limits - lower [%] : N/A
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 avoid

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10. Stability and reactivity (continued)

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Fatal if inhaled.
• Inhalation

• Dermal	: Fatal in contact with skin.
• Ingestion	: Based on available data, the classification criteria are not met.
Corrosion	: Based on available data, the classification criteria are not met.
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.

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12. Ecological information

12.1. Toxicity

Toxicity information : Toxic to aquatic life with long lasting effects.

12.2. Persistence - degradability

Persistence - degradability : May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

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12. Ecological information (continued)

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

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 : Hazardous waste due to toxicity.

14.1. Land transport (ADR-RID)

Proper shipping name : 1,1,2,2-TETRACHLOROETHANE
UN N° : 1702
H.I. nr : 60
ADR - Class : 6.1
Labelling - Transport : 6.1 : Toxic substances.

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ADR - Classification code : T1
ADR - Group : II
ADR - Packing instructions : P001
ADR - Limited Quantity : 100 ML
ADR - Tunnel code

**1,1,2,2-TETRACHLOROETHANE AR****14. Transport information (continued)**

: 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 : 1,1,2,2-TETRACHLOROETHANE
UN N° : 1702
IMO-IMDG - Class or division : 6.1 : Toxic substances.
IMO-IMDG - Packing group : II
IMO- IMDG - Packing instructions : P001
IMO-IMDG - Limited quantities : 100 ml
IMO-IMDG - Marine pollution : Yes
EMS-Nr : F-A S-A

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

Proper shipping name : 1,1,2,2-TETRACHLOROETHANE
UN N° : 1702
IATA - Class or division : 6.1 : Toxic substances.
IATA - Packing group : II
IATA - Passenger and Cargo Aircraft : ALLOWED
- Passenger and Cargo - Packing instruction : 654
- Passenger and Cargo - Maximum Quantity/Packing : 5 L
IATA - Cargo only : ALLOWED

- Cargo only - Packing instruction : 661

- Cargo only - Maximum Quantity/ : 60

Packing

IATA - Limited Quantities : 1 L

ERG-Nr : 6L

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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:
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.

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15. Regulatory information (continued)

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

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

DISCLAIMER:

16. Other information

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.

Revision : 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. 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 substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

List of relevant R phrases (heading 3) : R26/27 : Very toxic by inhalation and in contact with skin.
R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

List of full text of H-statements in section 3 : H310 : Fatal in contact with skin.
H330 : Fatal if inhaled.
H411 : Toxic to aquatic life with long lasting effects.

Further information : None.

storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

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