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MATERIAL SAFETY DATA SHEET (MSDS)

CHLOROFORM LR (TRICHLOROMETHANE)

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

1.1. Product identifier

Trade name : CHLOROFORM LR (TRICHLOROMETHANE)

Product code : SS0101602500

Identification of the product : Trichloromethane
CAS No :67-66-3
EC No :200-663-8
Annex No :602-006-00-4

Chemical formula : CHCl₃

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 : Carc. Cat. 3; R40
Xn; R22-48/20/22
Xi; R38

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

Health hazards : Carcinogenicity - Category 2 - Warning (CLP : Carc. 2) H351
Specific Target Organ Toxicity - Repeated exposure - Category 2 - Warning (CLP :
STOT RE 2) H373
Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302
Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315

2.2. Label elements

MATERIAL SAFETY DATA SHEET (MSDS)
CHLOROFORM LR (TRICHLOROMETHANE)
2. Hazards identification -DSD (continued)
Labelling EC 67/548 or EC 1999/45
Symbol(s)

Symbol(s)

: Xn : Harmful

R Phrase(s)

 : R20/22 : Harmful by inhalation and if swallowed.
 R36/38 : Irritating to eyes and skin.
 R40 : Limited evidence of a carcinogenic effect.
 R48/20/22 : Harmful : danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
 R63 : Possible risk of harm to the unborn child.

S Phrase(s)

 : S2 : Keep out of the reach of children.
 S36/37 : Wear suitable protective clothing and gloves.

Contains

: Trichloromethane

Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms

Signal words

: Warning

Hazard statements

 : H302 : Harmful if swallowed.
 H315 : Causes skin irritation.
 H319 : Causes serious eye irritation.
 H331 : Toxic if inhaled.
 H351 : Suspected of causing cancer.
 H361d : Suspected of damaging the unborn child.
 H372 : Causes damage to organs through prolonged or repeated exposure.

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.
 P201: Obtain special instructions before use.

• Prevention

 : P261: Avoid breathing vapours.
 P281: Use personal protective equipment as required.

• Response

 : P302+P352: IF ON SKIN : Wash with plenty of soap and water.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P311: Call a POISON CENTER or doctor/ physician.

• Storage

: 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.



MATERIAL SAFETY DATA SHEET (MSDS)
CHLOROFORM LR (TRICHLOROMETHANE)
2. Hazards identification -DSD (continued)

Contains : Trichloromethane

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 : Trichloromethane
 CAS No :000067-66-3
 EC No :200-663-8
 Annex No :602-006-00-4
 Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Trichloromethane	100 %	67-66-3	200-663-8	602-006-00-4	----	Carc. Cat. 3; R40 Xn; R22-48/20/22 Xi; R38 ----- Acute Tox. 4 (oral) _ H302 Carc. 2 _ H351 Skin Irrit. 2 _ H315 STOT RE 2 _ H373

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.
Skin contact : Specific treatment (see on this label). Get medical advice. If skin irritation occurs : Wash with plenty of soap and water. 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. Call a POISON CENTER or doctor if you feel unwell.

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

Symptoms relating to use : Swallowing a small quantity of this material will result in serious health hazard.
 Suspected of causing cancer.
 Causes damage to organ.
 Causes skin irritation.

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).

MATERIAL SAFETY DATA SHEET (MSDS)
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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

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.

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.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

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. Wash thoroughly after handling. Wash thoroughly after handling. Obtain special instructions before use.

MATERIAL SAFETY DATA SHEET (MSDS)
CHLOROFORM LR (TRICHLOROMETHANE)

7. Handling and storage (continued)

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.
Special precautions : 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 container closed when not in use.
Storage - away from : Strong bases. Strong acids. Sources of ignition. 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.
• **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 : Sweet pleasant
Odour threshold : No data available.
pH value : No data available.
Melting point [°C] : -63 °C
Decomposition point [°C] : 290°C
Critical temperature [°C] : N/A
Auto-ignition temperature [°C] : N/A
Flammability (solid, gas) : N/A

MATERIAL SAFETY DATA SHEET (MSDS)
CHLOROFORM LR (TRICHLOROMETHANE)
9. Physical and chemical properties (continued)

Flash point [°C]	: N/A
Boiling point [°C]	: 60.5 - 61.5 °C
Initial boiling point [°C]	: 60.5 °C
Final boiling point [°C]	: 61.5 °C
Evaporation rate	: 11,6
Vapour pressure [20°C]	: 213.3 hPa at 20°C
Vapour pressure mm/Hg	: N/A
Vapour density	: 4,12
Density [g/cm ³]	: 1,492
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Slightly soluble
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]	: 0.58 cps@ 20 °C

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.
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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.
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10.5. Incompatible materials

MATERIAL SAFETY DATA SHEET (MSDS)

CHLOROFORM LR (TRICHLOROMETHANE)

10. Stability and reactivity (continued)

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

- 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 skin irritation.

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

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

Carcinogenicity : Suspected of causing 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 : May cause damage to organs through prolonged or repeated exposure.

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

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12. Ecological information (continued)

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.

14. Transport information

14.1. Land transport (ADR-RID)

Proper shipping name : CHLOROFORM
UN N° : 1888
H.I. nr : 60
ADR - Class : 6.1
Labelling - Transport : 6.1 : Toxic substances.



ADR - Classification code : T1
T1
ADR - Group : III
ADR - Packing instructions : P001 R001 LP001
ADR - Limited Quantity : 5 L
ADR - Tunnel code



: E : Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

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

Proper shipping name	: CHLOROFORM
UN N°	: 1888
IMO-IMDG - Class or division	: 6.1 : Toxic substances.
IMO-IMDG - Packing group	: III
IMO-IMDG - Packing instructions	: P001 LP01
IMO-IMDG - Limited quantities	: 5 L
IMO-IMDG - Marine pollution	: No
EMS-Nr	: F-A S-A

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

Proper shipping name	: CHLOROFORM
UN N°	: 1888
IATA - Class or division	: 6.1 : Toxic substances.
IATA - Packing group	: III
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 680
- Passenger and Cargo - Maximum Quantity/Packing	: 60 L
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 680
- Cargo only - Maximum Quantity/Packing	: 220 L
IATA - Limited Quantities	: 2 L
ERG-Nr	: 6A

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.

15.2. Chemical Safety Assessment

Chemical Safety Assessment	: It has not been carried out.
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MATERIAL SAFETY DATA SHEET (MSDS)
CHLOROFORM LR (TRICHLOROMETHANE)

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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