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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 : SS0101600500

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

Chemical formula : CHCl<sub>3</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 : 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.

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### 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 :67-66-3  
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)**  
**CHLOROFORM LR (TRICHLOROMETHANE)**
**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 <sup>3</sup> ]	: 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 <sup>2</sup> /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

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

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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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