

CHLOROFORM HPLC

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Product Code : 41050

1. Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier **Trade name : CHLOROFORM HPLC Product code** : 41050 **Identification of the product : CHLOROFORM** CAS No :67-66-3 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** : MOLYCHEM Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: +91 22 2203 4442. Email : info@molychem.net Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503 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 Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315 Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302 2.2. Label elements Labelling EC 67/548 or EC 1999/45 Symbol(s) : Xn : Harmful **R** Phrase(s) : R22 : Harmful if swallowed. R38 : Irritating to 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.

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S Phrase(s) : S2 : Keep out of the reach of children. S36/37 : Wear suitable protective clothing and gloves. Labelling Regulation EC 1272/2008 (CLP) Hazard pictograms



Signal words : Warning

Hazard statements : H351 : Suspected of causing cancer.

H302 : Harmful if swallowed.

H315 : Causes skin irritation.

H373 : May cause 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** : P280: Wear protective gloves, protective clothing, eye protection, face protection.

P260: Do not breathe dust, fume, gas, mist, vapours, spray.

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

• 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.

P363: Wash contaminated clothing before reuse.

P314: Get medical advice if you feel unwell.

• 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.

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 : Chloroform

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Substance.

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 : Get medical advice. If skin irritation occurs : Wash with plenty of soap and water. Wash contaminated clothing before reuse. Specific treatment (see on this label).

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

Ingestion : Obtain emergency medical attention. Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

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).

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

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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. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage

7.1. Precautions for safe handling

Handling : Obtain special instructions before use. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Wash thoroughly after handling.

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

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Physical state at 20 °C : Liquid. **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 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/cm3]** : 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 [mm2/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. 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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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

• 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.

<u>12. Ecological information</u>

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

Environmental precautions : Avoid release to the environment.

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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 Nº** : 1888 **H.I. nr** : 60 **ADR - Class** : 6.1 **Labelling - Transport** : 6.1 : Toxic substances. ADR - Classification code : T1 ADR - Group : III ADR - Packing instructions : P001 R001 LP001 **ADR - Limited Ouantity : 5** L **ADR - Tunnel code** : E : Passage forbidden through tunnels of category E. 14.2. Sea transport (IMDG) [English only] **Proper shipping name : CHLOROFORM UN Nº** : 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 Nº : 1888 IATA - Class or division : 6.1 : Toxic substances. IATA - Packing group : III IATA - Passenger and Cargo Aircraft : ALLOWED - Passenger and Cargo - Packing : 680 instruction - Passenger and Cargo - Maximum : 60 L **Quantity/Packing** IATA - Cargo only : ALLOWED

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- Cargo only - Packing instruction : 680
- Cargo only - Maximum Quantity/ : 220 L
Packing
IATA - Limited Quantites : 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 : Ensure all national/local regulations are observed. **regulations/legislation specific for the substance or mixture**

REACH Restrictions - Annex XVII : Annex XVII With the exception of those listed below: 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.

16. Other information

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

Further information : None.

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