

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAł 400062, MH, INDIA. CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

MATERIAL SAFETY DATA SHEET (MSDS)

CYCLOHEXANE HPLC

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

1.1. Product identifier			
Trade name	: CYCLOHEXANE HPLC		
Product code	: SS0107201000		
Identification of the product	: Cyclohexane CAS No :110-82-7 EC No :203-806-2 Annex No :601-017-00-1		
Chemical formula	: C6H12		
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

: F; R11
Xn; R65
R67
Xi; R38
N; R50-53

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

Health hazards: Specific Target Organ Toxicity - Single exposure - Narcotic effects - Category 3 -
Warning (CLP : STOT SE 3) H336
Aspiration hazard - Category 1 - Danger (CLP : Asp. Tox. 1) H304
Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315



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2. Hazards identification -DSD (continued)		
Physical hazards Environmental hazards	 Flammable liquids - Category 2 - Danger (CLP : Flam. Liq. 2) H225 Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP : Aquatic Acute 1) H400 Hazardous to the aquatic environment - Chronic hazard - Category 1 - Warning (CLP : Aquatic Chronic 1) H410 	
2.2. Label elements		
Labelling EC 67/548 or EC 1999/45		
Symbol(s)	*	
Symbol(s)	:F:Highly flammable Xn:Harmful N:Dangerous for the environment	
R Phrase(s)	 R11 : Highly flammable. R38 : Irritating to skin. R65 : Harmful : may cause lung damage if swallowed. R67 : Vapours may cause drowsiness and dizziness. R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 	
S Phrase(s)	 S2 : Keep out of the reach of children. S9 : Keep container in a well-ventilated place. S16 : Keep away from sources of ignition - No smoking. S25 : Avoid contact with eyes. S33 : Take precautionary measures against static discharges. S51 : Use only in well-ventilated areas. S60 : This material and its container must be disposed of as hazardous waste. S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets. S62 : If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label. 	
Contains	: Cyclohexane	
Labelling Regulation EC 1272/2008	<u>(CLP)</u>	
Hazard pictograms	۵۰ 🚯 🚯 🏠	
Signal words Hazard statements	 Danger H225 : Highly flammable liquid and vapour. H304 : May be fatal if swallowed and enters airways. H315 : Causes skin irritation. H336 : May cause drowsiness or dizziness. 	



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CYCLOHEXANE HPLC

. Hazards identification -DSD (continued)		
	H410 : Very 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 • Response	 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. P273: Avoid release to the environment. P233: Keep container tightly closed. P264: Wash thoroughly after handling. P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor. 	
	 P302+P352: IF ON SKIN : Wash with plenty of soap and water. P332+P313: If skin irritation occurs : Get medical advice. P391: Collect spillage. 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. 	
Contains	: Cyclohexane	
2.3. Other hazards		
Other hazards	: The substance does not fulfil the criteria to be identified as PBT substance or vPv substance according to Annex XIII of Regulation REACH.	

3. Composition/information on ingredients							
Substance / Preparatio	on	: Cyclohexane CAS No :110-82-7 EC No :203-806-2 Annex No :601-017-00-1 Substance.					
Substance name Cyclohexane	:	Contents 100 %	CAS No 110-82-7	EC No 203-806-2	Annex No 601-017-00-1	REACH Ref.	Classification F; R11 Xn; R65 R67 Xi; R38 N; R50-53



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3. Composition/information on ingredients (continued)

Flam. Liq. 2 _ H225
Asp. Tox 1 H304
Asp. Tox 1 _ H304 Skin Irrit. 2 _ H315
STOT SE 3 _ H336
Aquatic Acute 1 _ H400
Aquatic Chronic 1 _ H410

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	<u>></u>		
Inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.		
Skin contact	: Wash contaminated clothing before reuse. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs Specific treatment (see on this label). Get medical advice.		
Eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.		
Ingestion	: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. Rinse mouth.		
4.2. Most important symptoms and effects, both acute and delayed			
Symptoms relating to use	: May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness.		
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	e substance or mixture		
Flammable class	: Highly flammable liquid and vapour.		
Hazardous combustion products	: Under fire conditions, hazardous fumes will be present.		



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5. Fire-fighting measures (continued)		
5.3. Advice for fire-fighters		
<u></u>		
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.	
r or emergency responders	Ventilate area.	
	Avoid breathing dust, fume, gas, mist, vapours, spray.	
Technical measures	: Use special care to avoid static electric charges.	
Special precautions	: Remove ignition sources. No naked lights. No smoking.	
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		

7. Handling and storage

7.1. Precautions for safe handling Handling : Handle empty containers with care because residual vapours are flammable. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Technical protective measures : 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.

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CYCLOHEXANE HPLC

7. Handling and storage (continued)			
Special precautions	: No naked lights. No smoking. 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 in fireproof place. Ground/bond container and receiving equipment. Keep container tightly closed.		
Storage - away from	: Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.		
7.3. Specific end use(s)			
Specific end use(s)	: None.		

8. Exposure controls/personal protection

8.1. Exposure controls

Personal protection Respiratory protection 	 Avoid all unnecessary exposure. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear respiratory protection.
 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	: Characteristic ether like odour
Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: 4 - 7 °C
Decomposition point [°C]	: N/A



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9. Physical and chemical properties (continued)

Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 260 °C
Flammability (solid, gas)	: Highly flammable liquid and vapour. Extremely flammable.
Flash point [°C]	: (-18)°C
Boiling point [°C]	: 80.7 °C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: 2,6
Vapour pressure [20°C]	: 102.7 hPa at 20°C
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm3]	: 0,779
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Insoluble.
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
9.2. Other information	
Explosive properties	: N/A
Explosion limits - upper [%]	: 9%
Explosion limits - lower [%]	: 1%
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.	



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CYCLOHEXANE HPLC

10. Stability and reactivity (continued)		
10.4. Conditions to avoid		
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures. Open flame.	
10.5. Incompatible materials		
Materials to avoid	: Strong acids. Strong bases.	
10.6. Hazardous decomposition products		
Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide. May release flammable gases.	

11. Toxicological information

11.1. Information on toxicological effects

A	cu	te	tc	xicity	

Inhalation	: May be fatal if swallowed and enters airways.
• Dermal	: Based on available data, the classification criteria are not met.
Ingestion	: May be fatal if swallowed and enters airways.
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	: 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	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Based on available data, the classification criteria are not met.
Aspiration hazard	: May be fatal if swallowed and enters airways.

12. Ecological information

<u>12.1. Toxicity</u>	
Toxicity information	: Very toxic to aquatic life with long lasting effects.
12.2. Persistence - degradability	
Persistence - degradability	: May cause long-term adverse effects in the environment.



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12. Ecological information (continue	12. Ecological information (continued)		
12.3. Bioaccumulative potential			
Bioaccumulative potential	: Not established.		
<u>12.4. Mobility in soil</u>			
Mobility in soil	: Not established.		
12.5. Results of PBT and vPvB asses	sment		
Results of PBT and vPvB assessmen	t : 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.		
Special precautions	 Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Handle empty containers with care because residual vapours are flammable. Hazardous waste due to toxicity. 		

14. Transport information

14.1. Land transport (ADR-RID)

Proper shipping name	: CYCLOHEXANE
UN N°	: 1145
H.I. nr	: 33
ADR - Class	: 3
Labelling - Transport	: 3 : Flammable liquid.





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CYCLOHEXANE HPLC

14. Transport information (continued)

ADR - Classification code	: F1
ADR - Group	: II
ADR - Packing instructions	: P001 R001
ADR - Limited Quantity	: 1L
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	: CYCLOHEXANE
UN N°	: 1145
IMO-IMDG - Class or division	: 3 : Flammable liquid.
IMO-IMDG - Packing group	: 11
IMO- IMDG - Packing instructions	: P001
IMO-IMDG - Limited quantities	: 1 L
IMO-IMDG - Marine pollution	: Yes
EMS-Nr	: F-E S-D

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

Proper shipping name	: CYCLOHEXANE
UN N°	: 1145
IATA - Class or division	: 3 : Flammable liquid.
IATA - Packing group	: 11
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 353
- Passenger and Cargo - Maximum Quantity/Packing	: 5 L
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 364
- Cargo only - Maximum Quantity/ Packing	: 60 L
IATA - Limited Quantites	: 1 L
ERG-Nr	: 3H



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In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation (CE) Nº 1272/2008

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 the material by a properly trained person using this product.

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