

MATERIAL SAFETY DATA SHEET (MSDS)

CYCLOHEXANE AR

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

1.1. Product identifier

Trade name : CYCLOHEXANE AR

Product code : SS0102002500
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

Classification : 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

Physical hazards : Flammable liquids - Category 2 - Danger (CLP : Flam. Liq. 2) H225



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2. Hazards identification -DSD (continued)

Environmental hazards : 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 (CLP)

Hazard pictograms









Signal words : Danger

Hazard statements : 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.

H410: Very toxic to aquatic life with long lasting effects.



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2. Hazards identification -DSD (continued)

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** : 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.

Response : 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 vPvB

substance according to Annex XIII of Regulation REACH.

Annex No

601-017-00-1

3. Composition/information on ingredients

Substance / Preparation : Cyclohexane

CAS No :110-82-7 EC No :203-806-2 Annex No :601-017-00-1

Substance.

 Substance name
 Contents
 CAS No
 EC No

 Cyclohexane
 : 100 %
 110-82-7
 203-806-2

REACH Ref.

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

Classification

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



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3. Composition/information on ingredients (continued)

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

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 substance or mixture

Flammable class : Highly flammable liquid and vapour.

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.



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5. Fire-fighting measures (continued)

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.

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.

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.



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7. Handling and storage (continued)

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 : Avoid all unnecessary exposure.

• Respiratory protection : 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.
 When using do not eat, drink or small

• 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

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



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9. Physical and chemical properties (continued)

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.

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



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10. Stability and reactivity (continued)

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

May release flammable gases.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

• 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

12.1. Toxicity

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.

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.



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12. Ecological information (continued)

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: 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.



ADR - Classification code : F1
ADR - Group : II

ADR - Packing instructions : P001 R001

ADR - Limited Quantity : 1 L

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



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14. Transport information (continued)

UN N° : 1145

: 3 : Flammable liquid. IMO-IMDG - Class or division

: 11 IMO-IMDG - Packing group **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]

: CYCLOHEXANE Proper shipping name

UN N° : 1145

IATA - Class or division : 3 : Flammable liquid.

IATA - Packing group : 11

IATA - Passenger and Cargo Aircraft : ALLOWED

: 353 - Passenger and Cargo - Packing

instruction

- Passenger and Cargo - Maximum : 5 L

Quantity/Packing

: ALLOWED IATA - Cargo only

- Cargo only - Packing instruction : 364 - Cargo only - Maximum Quantity/ : 60 L

Packing

IATA - Limited Quantites : 1 L **ERG-Nr** : 3H

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

: Ensure all national/local regulations are observed.

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.

: The components of this product are not subject to authorization. **REACH Authorisation - Annex XIV**

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.



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

DISCLAIMER:

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