

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

MATERIAL SAFETY DATA SHEET (MSDS)
00161
N-HEXANE 99% LR
1. Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier

Trade name : N-HEXANE 99% LR

Product code : SS0108902500

Identification of the product : n-Hexane
 CAS No: 110-54-3
 EC No :203-777-6
 Annex No :601-037-00-0

Chemical formula : C₆H₁₄ - CH₃(CH₂)₄CH₃

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
 Repr. Cat. 3; R62
 Xn; R65-48/20
 R67
 Xi; R38
 N; R51-53

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

Health hazards : Reproductive toxicity - Fertility - Category 2 - Warning (CLP : Repr. 2) H361
 Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -
 Category 3 - Warning (CLP : STOT SE 3) H335
 Specific Target Organ Toxicity - Single exposure - Narcotic effects - Category 3 -

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2. Hazards identification -DSD (continued)

	Warning (CLP : STOT SE 3) H336 Specific Target Organ Toxicity - Repeated exposure - Category 2 - Warning (CLP : STOT RE 2) H373 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
Environmental hazards	: Hazardous to the aquatic environment - Chronic hazard - Category 2 (CLP : Aquatic Chronic 2) H411

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.
R48/20 : Harmful : danger of serious damage to health by prolonged exposure through inhalation.
R62 : Possible risk of impaired fertility.
R65 : Harmful : may cause lung damage if swallowed.
R67 : Vapours may cause drowsiness and dizziness.
R51/53 : 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.
S29 : Do not empty into drains.
S33 : Take precautionary measures against static discharges.
S36/37 : Wear suitable protective clothing and gloves.
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

: n-Hexane

Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms


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N-HEXANE 99% LR
2. Hazards identification -DSD (continued)

Signal words	: Danger
Hazard statements	: H225 : Highly flammable liquid and vapour. H304 : May be fatal if swallowed and enters airways. H361f : Suspected of damaging fertility. H315 : Causes skin irritation. H335 : May cause respiratory irritation. H336 : May cause drowsiness or dizziness. H373 : May cause damage to organs through prolonged or repeated exposure. H411 : 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. P201: Obtain special instructions before use.
• 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. P260: Do not breathe 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. P308+P313: If exposed or concerned : get medical advice. 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. P314: Get medical advice if you feel unwell. 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	: n-Hexane
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.

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3. Composition/information on ingredients

Substance / Preparation : n-Hexane

EC No :203-777-6
 Annex No :601-037-00-0
 Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
n-Hexane	100 %	110-54-3	203-777-6	601-037-00-0	----	F; R11 Repr. Cat. 3; R62 Xn; R65-48/20 R67 Xi; R38 N; R51-53 ----- Flam. Liq. 2 _ H225 Asp. Tox 1 _ H304 Repr. 2 _ H361f Skin Irrit 2 _ H315 STOT SE 3 _ H335 STOT RE 2 _ H373 STOT SE 3 _ H336 Aquatic Chronic 2 _ H411

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. If skin irritation occurs : Get medical advice. Specific treatment (see on this label). Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.
Eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
Ingestion	: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor.

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

Symptoms relating to use	: Causes damage to organ. May be fatal if swallowed and enters airways. Suspected of damaging fertility. Causes skin irritation. May cause respiratory irritation. May cause drowsiness or dizziness.
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4.3. Indication of any immediate medical attention and special treatment needed

General information	: Never give anything by mouth to an unconscious person. If exposed or concerned : get medical advice.
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MATERIAL SAFETY DATA SHEET (MSDS)
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N-HEXANE 99% LR
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.
- 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

MATERIAL SAFETY DATA SHEET (MSDS)
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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. Obtain special instructions before use.
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.
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.
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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.
• Others	: When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits	: No data available.
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9. Physical and chemical properties
9.1. Information on basic physical and chemical properties

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N-HEXANE 99% LR
9. Physical and chemical properties (continued)

Physical state at 20 °C	: Liquid.
Colour	: Clear Colorless
Odour	: Gasoline-like
Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: -95 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 225 °C
Flammability (solid, gas)	: Highly flammable liquid and vapour. Flammable.
Flash point [°C]	: -23 °C
Boiling point [°C]	: 68 - 70 °C
Initial boiling point [°C]	: 68°C
Final boiling point [°C]	: 70 °C
Evaporation rate	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: 151 mm Hg @ 25 deg C
Vapour density	: 2,97
Density [g/cm3]	: 0,678
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]	: 0.31 mPas 20 deg C

9.2. Other information

Explosive properties	: N/A
Explosion limits - upper [%]	: 7,50%
Explosion limits - lower [%]	: 1,10%
Oxidising properties	: No data available.

10. Stability and reactivity
10.1. Reactivity

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10. Stability and reactivity (continued)

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

 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.
 May cause respiratory 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 : Suspected of damaging fertility.

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : May be fatal if swallowed and enters airways.

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12. Ecological information
12.1. Toxicity

Toxicity information : 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.

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 : HEXANES
UN N° : 1208
H.I. nr : 33

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14. Transport information (continued)

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 : HEXANES
 UN N° : 1208
 IMO-IMDG - Class or division : 3 : Flammable liquid.
 IMO-IMDG - Packing group : II
 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 : HEXANES
 UN N° : 1208
 IATA - Class or division : 3 : Flammable liquid.
 IATA - Packing group : II
 IATA - Passenger and Cargo Aircraft : ALLOWED
 - Passenger and Cargo - Packing : 353
 instruction
 - Passenger and Cargo - Maximum : 5 L
 Quantity/Packing
 IATA - Cargo only : ALLOWED
 - Cargo only - Packing instruction : 364

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14. Transport information (continued)

- Cargo only - Maximum Quantity/ : 60 L
 Packing
 IATA - Limited Quantities : 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 substance or mixture : Ensure all national/local regulations are observed.
 REACH Restrictions - 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.

16. Other information

Revision : Revision - See : *
 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
 List of relevant R phrases (heading 3) : R11 : Highly flammable.
 R38 : Irritating to skin.
 R48/20 : Harmful : danger of serious damage to health by prolonged exposure through inhalation.
 R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R62 : Possible risk of impaired fertility.
 R65 : Harmful : may cause lung damage if swallowed.
 R67 : Vapours may cause drowsiness and dizziness.
 List of full text of H-statements in section 3 : H225 : Highly flammable liquid and vapour.
 H304 : May be fatal if swallowed and enters airways.
 H315 : Causes skin irritation.
 H335 : May cause respiratory irritation.
 H336 : May cause drowsiness or dizziness.
 H361f : Suspected of damaging fertility.
 H373 : May cause damage to organs through prolonged or repeated exposure.
 H411 : Toxic to aquatic life with long lasting effects.

MATERIAL SAFETY DATA SHEET (MSDS)

N-HEXANE 99% LR

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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