

CHAITANYA CHS, 2<sup>nd</sup> 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)**
**00162**
**N-HEXANE 99% AR**
**1. Identification of the substance/mixture and of the company/undertaking**
**1.1. Product identifier**

Trade name : N-HEXANE 99% AR

Product code : SS0103402500

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

Chemical formula : C<sub>6</sub>H<sub>14</sub> - CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>CH<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 : 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)**

<b>Physical hazards</b>	Warning (CLP : STOT SE 3) H336
	Specific Target Organ Toxicity - Repeated exposure - Category 2 - Warning (CLP : STOT RE 2) H373
<b>Environmental hazards</b>	Aspiration hazard - Category 1 - Danger (CLP : Asp. Tox. 1) H304
	Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315
	: Flammable liquids - Category 2 - Danger (CLP : Flam. Liq. 2) H225
	: 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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**2. Hazards identification -DSD (continued)**

<b>Signal words</b>	: Danger
<b>Hazard statements</b>	: 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.
<b>Precautionary statements</b>	
• <b>General</b>	: 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.
• <b>Prevention</b>	: 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.
• <b>Response</b>	: 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.
• <b>Storage</b>	: P403+P233: Store in well-ventilated place. Keep container tightly closed. P403+P235: Store in well-ventilated place. Keep cool. P405: Store locked up.
• <b>Disposal considerations</b>	: 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.
<b>Contains</b>	: n-Hexane
<b>2.3. Other hazards</b>	
<b>Other hazards</b>	: 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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**MATERIAL SAFETY DATA SHEET (MSDS)**
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**N-HEXANE 99% AR**
**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**

<b>Inhalation</b>	: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
<b>Skin contact</b>	: 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.
<b>Eye contact</b>	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
<b>Ingestion</b>	: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor.

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

<b>Symptoms relating to use</b>	: 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**

<b>General information</b>	: 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% AR**
**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**

<b>Handling</b>	: 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.
<b>Technical protective measures</b>	: 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.
<b>Special precautions</b>	: No naked lights. No smoking. Avoid breathing dust, fume, gas, mist, vapours, spray.

**7.2. Conditions for safe storage, including any incompatibilities**

<b>Storage</b>	: 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.
<b>Storage - away from</b>	: Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.

**7.3. Specific end use(s)**

<b>Specific end use(s)</b>	: None.
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**8. Exposure controls/personal protection**
**8.1. Exposure controls**

<b>Personal protection</b>	: Avoid all unnecessary exposure.
• <b>Respiratory protection</b>	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear respiratory protection.
• <b>Hand protection</b>	: Wear protective gloves.
• <b>Skin protection</b>	: Wear suitable protective clothing.
• <b>Eye protection</b>	: Chemical goggles or safety glasses.
• <b>Others</b>	: When using, do not eat, drink or smoke.

**8.2. Control parameters**

<b>Occupational Exposure Limits</b>	: 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% AR**
**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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**N-HEXANE 99% AR**
**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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**N-HEXANE 99% AR**
**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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**N-HEXANE 99% AR**
**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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**N-HEXANE 99% AR**
**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.

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**N-HEXANE 99% AR**

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.

**End of document**