

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
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**MATERIAL SAFETY DATA SHEET (MSDS)**
**00163**
**N-HEXANE 95% HPLC**
**1. Identification of the substance/mixture and of the company/undertaking**
**1.1. Product identifier**

Trade name : N-HEXANE 95% HPLC

Product code : SS0110601000

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.<br>H304 : May be fatal if swallowed and enters airways.<br>H361f : Suspected of damaging fertility.<br>H315 : Causes skin irritation.<br>H335 : May cause respiratory irritation.<br>H336 : May cause drowsiness or dizziness.<br>H373 : May cause damage to organs through prolonged or repeated exposure.<br>H411 : Toxic to aquatic life with long lasting effects.   |
| <b>Precautionary statements</b>  |   |
| • <b>General</b>                 | : P102: Keep out of reach of children.<br>P103: Read label before use.<br>P101: If medical advice is needed, have product container or label at hand.<br>P201: Obtain special instructions before use.  |
| • <b>Prevention</b>              | : P240: Ground/bond container and receiving equipment.<br>P241: Use explosion-proof electrical, ventilating, lighting, ..., equipment.<br>P210: Keep away from heat, sparks, open flames or hot surfaces. - No smoking.<br>P280: Wear protective gloves, protective clothing, eye protection, face protection.<br>P271: Use only outdoors or in a well-ventilated area.<br>P260: Do not breathe dust, fume, gas, mist, vapours, spray.<br>P273: Avoid release to the environment.<br>P233: Keep container tightly closed.<br>P264: Wash thoroughly after handling.  |
| • <b>Response</b>                | : P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor.<br>P302+P352: IF ON SKIN : Wash with plenty of soap and water.<br>P308+P313: If exposed or concerned : get medical advice.<br>P332+P313: If skin irritation occurs : Get medical advice.<br>P391: Collect spillage.<br>P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.<br>P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.<br>P363: Wash contaminated clothing before reuse.<br>P314: Get medical advice if you feel unwell.<br>P370+P378: In case of fire: Use for extinction. |
| • <b>Storage</b>                 | : P403+P233: Store in well-ventilated place. Keep container tightly closed.<br>P403+P235: Store in well-ventilated place. Keep cool.<br>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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**00163**
**N-HEXANE 95% HPLC**
**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<br>Repr. Cat. 3; R62<br>Xn; R65-48/20<br>R67<br>Xi; R38<br>N; R51-53<br>-----<br>Flam. Liq. 2 _ H225<br>Asp. Tox 1 _ H304<br>Repr. 2 _ H361f<br>Skin Irrit 2 _ H315<br>STOT SE 3 _ H335<br>STOT RE 2 _ H373<br>STOT SE 3 _ H336<br>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.<br>May be fatal if swallowed and enters airways.<br>Suspected of damaging fertility.<br>Causes skin irritation. May cause respiratory irritation.<br>May cause drowsiness or dizziness. |
|---------------------------------|---|

**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.<br>If exposed or concerned : get medical advice. |
|----------------------------|---|

**MATERIAL SAFETY DATA SHEET (MSDS)**

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**N-HEXANE 95% HPLC**
**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.<br>Ventilate area.<br>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.<br>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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**N-HEXANE 95% HPLC**
**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. |
|----------------------------|---------|

**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.<br>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. |
|-------------------------------------|----------------------|

**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

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**N-HEXANE 95% HPLC**
**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.<br>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 95% HPLC**
**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 95% HPLC**
**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 95% HPLC**
**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 instruction : 353  
   - Passenger and Cargo - Maximum Quantity/Packing : 5 L  
 IATA - Cargo only : ALLOWED  
   - Cargo only - Packing instruction : 364

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**N-HEXANE 95% HPLC**
**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 95% HPLC**

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**