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MATERIAL SAFETY DATA SHEET (MSDS)

N-HEXANE 99% HPLC

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

1.1. Product identifier

Trade name : N-HEXANE 99% HPLC

Product code : SS0110702500

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 -

MATERIAL SAFETY DATA SHEET (MSDS)
N-HEXANE 99% HPLC
2. Hazards identification -DSD (continued)

Physical hazards	Warning (CLP : STOT SE 3) H336
	Specific Target Organ Toxicity - Repeated exposure - Category 2 - Warning (CLP : STOT RE 2) H373
Environmental hazards	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


MATERIAL SAFETY DATA SHEET (MSDS)
N-HEXANE 99% HPLC
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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MATERIAL SAFETY DATA SHEET (MSDS)

N-HEXANE 99% 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 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)
N-HEXANE 99% 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. 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.
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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.
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6.4. Reference to other sections

See section 8. Exposure controls/personal protection

MATERIAL SAFETY DATA SHEET (MSDS)
N-HEXANE 99% HPLC
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

MATERIAL SAFETY DATA SHEET (MSDS)
N-HEXANE 99% 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. 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

MATERIAL SAFETY DATA SHEET (MSDS)
N-HEXANE 99% 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.

MATERIAL SAFETY DATA SHEET (MSDS)
N-HEXANE 99% 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

MATERIAL SAFETY DATA SHEET (MSDS)
N-HEXANE 99% 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

MATERIAL SAFETY DATA SHEET (MSDS)
N-HEXANE 99% 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 99% HPLC

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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