

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

# MATERIAL SAFETY DATA SHEET (MSDS)

# **n-PENTANE HPLC**

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

1.1. Product identifier		
Trade name	: n-PENTANE HPLC	
Product code Identification of the product	: SS0112001000 : N-PENTANE AR 99% CAS No: 109-66-0	
1.2. Relevant identified uses of the s	ubstance 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	
1.4. Emergency telephone number	Email ID: info@suvchem.com/care@suvchem.com	
	: + 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+; R12
	Xn; R65
	R66
	R67
	N; R51-53

# 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
Physical hazards	: Flammable liquids - Category 1 - Danger (CLP : Flam. Liq. 1) H224
Environmental hazards	: Hazardous to the aquatic environment - Chronic hazard - Category 2 (CLP : Aquatic Chronic 2) H411



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

# MATERIAL SAFETY DATA SHEET (MSDS)

# **n-PENTANE HPLC**

# 2. Hazards identification -DSD (continued)

Labelling EC 67/548 or EC 1999/45

# 2.2. Label elements

Symbol(s)	
Symbol(s)	: F+ : Extremely flammable N : Dangerous for the environment Xn : Harmful
R Phrase(s)	<ul> <li>R12 : Extremely flammable.</li> <li>R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R65 : Harmful : may cause lung damage if swallowed.</li> <li>R66 : Repeated exposure may cause skin dryness or cracking.</li> <li>R67 : Vapours may cause drowsiness and dizziness.</li> </ul>
S Phrase(s)	<ul> <li>S16 : Keep away from sources of ignition - No smoking.</li> <li>S29 : Do not empty into drains.</li> <li>S33 : Take precautionary measures against static discharges.</li> <li>S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.</li> <li>S62 : If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label.</li> </ul>
Labelling Regulation EC 1272/2008 (C	<u>LP)</u>
Hazard pictograms	۱ ال ال
Signal words	: Danger
Hazard statements	<ul> <li>H224 : Extremely flammable liquid and vapour.</li> <li>H304 : May be fatal if swallowed and enters airways.</li> <li>H336 : May cause drowsiness or dizziness.</li> <li>H411 : Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
• Prevention	<ul> <li>P240: Ground/bond container and receiving equipment.</li> <li>P241: Use explosion-proof electrical, ventilating, lighting,, equipment.</li> <li>P210: Keep away from heat, sparks, open flames or hot surfaces No smoking.</li> <li>P280: Wear protective gloves, protective clothing, eye protection, face protection.</li> <li>P271: Use only outdoors or in a well-ventilated area.</li> <li>P261: Avoid breathing dust, fume, gas, mist, vapours, spray.</li> <li>P273: Avoid release to the environment.</li> <li>P233: Keep container tightly closed.</li> </ul>

Page: 2

# AN ISO 9001: 2015 CERTIFIED



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

# MATERIAL SAFETY DATA SHEET (MSDS)

# **n-PENTANE HPLC**

2. Hazards identification -DSD (continued)	
• Response	<ul> <li>P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor. 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. P370+P378: In case of fire: Use for extinction.</li> </ul>
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.
<ul> <li>Disposal considerations</li> </ul>	: 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.
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.

3. Composition/information on ingredients		
Substance / Preparation	: N-PENTANE AR 99%	
	Substance.	

Contains no other components or impurities which will influence the classification of the product.

4. I	First	aid	measures
------	-------	-----	----------

#### 4.1. Description of first aid measures

Inhalation	: Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing.
Skin contact	: 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 an	d effects, both acute and delayed
Symptoms relating to use	: May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.

AN ISO 9001: 2015 CERTIFIED



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

# MATERIAL SAFETY DATA SHEET (MSDS)

# **n-PENTANE HPLC**

4. First aid measures (continued)	
4.3. Indication of any immediate med	ical 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 Unsuitable extinguishing media Surrounding fires	: Foam. Dry powder. Carbon dioxide. Water spray. Sand. : Do not use a heavy water stream. : Use water spray or fog for cooling exposed containers.
5.2. Special hazards arising from the	substance or mixture
Flammable class Hazardous combustion products	: Extremely flammable liquid and vapour. : 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	<ul> <li>Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment.</li> </ul>

# 6.3. Methods and material for containment and cleaning up



# MATERIAL SAFETY DATA SHEET (MSDS)

# **n-PENTANE HPLC**

6. Accidental release measures (c	ontinued)
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/per	rsonal protection
7. Handling and storage	
7.1. Precautions for safe handling	
Handling	<ul> <li>Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.</li> <li>Handle empty containers with care because residual vapours are flammable.</li> <li>Use only outdoors or in a well-ventilated area. Take precautionary measures against static discharge.</li> </ul>
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 only non-sparking tools. 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, in	cluding 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.
<u>7.3. Specific end use(s)</u>	
Specific end use(s)	: None.
8. Exposure controls/personal pro	otection
8.1. Exposure controls	
Personal protection <ul> <li>Respiratory protection</li> </ul>	: Avoid all unnecessary exposure. : Where exposure through inhalation may occur from use, respiratory protection

Wear respiratory protection.
 Wear protective gloves.

equipment is recommended.



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

# MATERIAL SAFETY DATA SHEET (MSDS)

# **n-PENTANE HPLC**

8. Exposure controls/personal protection (continued)		
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.	

# 9. Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state at 20 °C	: Liquid.
Colour	: Clear Colorless
Odour	: mild odor,gasoline-like,pleasant odor
Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: -130 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 260°C
Flammability (solid, gas)	: Flammable.
	Extremely flammable liquid and vapour.
Flash point [°C]	: -49°C
Boiling point [°C]	: 35 - 36 °C
Initial boiling point [°C]	: 35°C
Final boiling point [°C]	: 36 °C
Evaporation rate	: 28,6
Vapour pressure [20°C]	:579 hPa at 20 °C
Vapour pressure mm/Hg	: 514 mm Hg @ 25 deg C
Vapour density	: 2,5
Density [g/cm3]	: 0,62
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: 0.04% at 20°C
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



# MATERIAL SAFETY DATA SHEET (MSDS)

# **n-PENTANE HPLC**

9. Physical and chemical properties	(continued)
Explosive properties Explosion limits - upper [%] Explosion limits - lower [%] Oxidising properties	: N/A : 8,30% : 1,40% : 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 reaction	<u>ns</u>
Hazardous reactions	: Not established.
10.4. Conditions to avoid	
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures. Sparks. Heat. Overheating. 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.



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

# MATERIAL SAFETY DATA SHEET (MSDS)

# **n-PENTANE HPLC**

11. Toxicological information (co	ntinued)
Irritation Sensitization Mutagenicity Carcinogenicity Toxic for reproduction STOT-single exposure STOT-repeated exposure Aspiration hazard	<ul> <li>Repeated exposure may cause skin dryness or cracking.</li> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> <li>May cause drowsiness or dizziness.</li> <li>Based on available data, the classification criteria are not met.</li> <li>May be fatal if swallowed and enters airways.</li> </ul>
12. Ecological information	
<u>12.1. Toxicity</u>	
Toxicity information	: Toxic to aquatic life with long lasting effects.
<u> 12.2. Persistence - degradability</u>	
Persistence - degradability	: May cause long-term adverse effects in the environment.
12.3. Bioaccumulative potential	
Bioaccumulative potential	: Not established.
<u>12.4. Mobility in soil</u>	
Mobility in soil	: Not established.
12.5. Results of PBT and vPvB as	sessment
Results of PBT and vPvB assess	ment : 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.



# MATERIAL SAFETY DATA SHEET (MSDS)

# n-PENTANE HPLC

# 13. Disposal considerations (continued)

**Special precautions** 

: Handle empty containers with care because residual vapours are flammable. Hazardous waste due to toxicity.

# 14. Transport information

14.1.	Land	trans	port	( <u>ADR-RID)</u>

Proper shipping name	: PENTANES, liquid
UN N°	: 1265
H.I. nr	: 33
ADR - Class	: 3
Labelling - Transport	: 3 : Flammable liquid.

ADR - Classification code	: F1
ADR - Group	: 11
ADR - Packing instructions	: P001
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	: PENTANES, liquid
UN N°	: 1265
IMO-IMDG - Class or division	: 3 : Flammable liquid.
IMO-IMDG - Packing group	: 11
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]



# MATERIAL SAFETY DATA SHEET (MSDS)

# **n-PENTANE HPLC**

# 14. Transport information (continued)

Proper shipping name	: PENTANES, liquid
UN N°	: 1265
IATA - Class or division	: 3 : Flammable liquid.
IATA - Packing group	: 11
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
- Cargo only - Maximum Quantity/ Packing	: 60 L
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 th substance or mixture	: Ensure all national/local regulations are observed. e
<b>REACH Restrictions - Annex XVII</b>	: The components of this product are not subject to restrictions.
<b>REACH</b> 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
Further information	: None.



# MATERIAL SAFETY DATA SHEET (MSDS)

# **n-PENTANE HPLC**

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