

## N- HEXANE (HPLC & Spectroscopy)

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Trade name : N - HEXANE (HPLC & Spectroscopy)  
Product code : H018  
Identification of the product : N - HEXANE (HPLC & Spectroscopy)  
CAS No :110-54-3  
EC No :203-777-6  
Annex No :601-037-00-0  
Chemical formula :  $C_6H_{14}$  -  $CH_3(CH_2)_4CH_3$

#### 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 : Hexon Laboratories Pvt.Ltd.  
1/14, Govind Building, Ardeshir dadi street,  
Charni Road, Mumbai – 400 004.  
Ph. No. : 9028003459  
E-mail : [customercare@hexonlab.com](mailto:customercare@hexonlab.com)  
Web : [www.hexonlab.com](http://www.hexonlab.com)

### 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 –  
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  
Physical hazards : Flammable liquids - Category 2 – Danger (CLP : Flam. Liq. 2) H225  
Environmental hazards : Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP  
Aquatic Acute 1) H400

**N- HEXANE (HPLC & Spectroscopy)**

**2.2. Label elements**

Labelling EC 67/548 or EC 1999/45

Symbol(s)



- Symbol(s)** : F : Highly flammable  
 N : Dangerous for the environment  
 Xn : Harmful
- 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



- signal words** : Danger
- Hazard statements** : H225 : Highly flammable liquid and vapour..  
 H304 : May be fatal if swallowed and enters airways  
 H361 : 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

## N- HEXANE (HPLC & Spectroscopy)

- **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 vPvBsubstance according to Annex XIII of Regulation REACH.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance / Preparation** : n-Hexane HPLC  
CAS No :110-54-3  
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

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## N- HEXANE (HPLC & Spectroscopy)

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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

#### 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.

### 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

## N- HEXANE (HPLC & Spectroscopy)

<b>For emergency responders</b>	Equip cleanup crew with proper protection Ventilate area
<b>Technical measures</b>	Avoid breathing dust, fume, gas, mist, vapours, spray
<b>Special precautions</b>	Use special care to avoid static electric charges
<b>For non-emergency personnel</b>	Remove ignition sources. No naked lights. No smoking : Evacuate unnecessary personnel.

### 6.2. Environmental precautions

<b>Environmental precautions</b>	: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters
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### 6.3. Methods and material for containment and cleaning up

<b>Clean up methods</b>	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage..
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<b><u>6.4. Reference to other sections</u></b>	: See section 8. Exposure controls/personal protection
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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.,

### 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

## N- HEXANE (HPLC & Spectroscopy)

- Hand protection : Wear respiratory protection
- Skin protection : Wear protective gloves.
- Eye protection : Wear suitable protective clothing
- Others : 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	: 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
Vapor pressure [20°C]	: N/A
Vapor pressure mm/Hg	: 151 mm Hg @ 25 deg C
Vapor density	: 2.97
Density [g/cm <sup>3</sup> ]	: 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 [mm <sup>2</sup> /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%
Oxidizing properties	: No data available.

## 10. Stability and reactivity

### 10.1. Reactivity

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## N- HEXANE (HPLC & Spectroscopy)

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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.

### 10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

### 10.6. 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

## 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

## **N- HEXANE (HPLC & Spectroscopy)**

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**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** : HEXANE  
**UN N°** : 1208  
**H.I. nr** : 33  
**ADR - Class** : 3  
**Labelling - Transport** : 3 : Flammable liquid





**ADR - Classification code** : F1  
**ADR - Group** : III  
**ADR - Packing instructions** : P001 R001

**ADR - Limited Quantity** : 1 L



**N- HEXANE (HPLC & Spectroscopy)**

ADR - Tunnel code

	
D1E	BULK/TANK= D
	E

: 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 : HEXANE  
 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 : HEXANE  
 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  
 - Cargo only - Maximum Quantity : 60 L  
 Packing :  
 IATA - Limited Quantities : 1 L  
 ERG-Nr : 3 H

**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.

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## N- HEXANE (HPLC & Spectroscopy)

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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.

List of full text of H-statements in section 3 : R62 : Possible risk of impaired fertility.  
R65 : Harmful : may cause lung damage if swallowed.  
R67 : Vapours may cause drowsiness and dizziness  
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  
H361 : Suspected of damaging fertility  
H373 : May cause damage to organs through prolonged or repeated exposure  
H411 : Toxic to aquatic life with long lasting effects.

Further information : None

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

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