

OXFORD LAB FINE CHEM LLP

ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990
Email: sales@oxfordlabchem.com /
info@oxfordlabchem.com
Web: www.oxfordlabchem.com

Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

n-HEPTANE 99% AR
MSDS CAS : 142-82-5

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name : n-HEPTANE 99% AR

CAS#: 142-82-5

C.I. No.: Not available.

Synonym : Not available.

Chemical Name: n-HEPTANE 99% AR

Chemical Formula: CH₃(CH₂)₅.CH₃

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet:

Company identification: OXFORD LAB FINE CHEM LLP
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
Navghar, Vasai (East). Palghar - 401 210.
Mumbai, Maharashtra, INDIA.
Tel: 91-250-2390989
Tel/Fax: 91-250-2390032

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
n-HEPTANE 99% AR	142-82-5	100

Section 3: Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1999/45

Classification : F; R11
Xn; R65
R67
Xi; R38
N; R50-53

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
Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315

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
Hazardous to the aquatic environment - Chronic hazard - Category 1 - Warning
(CLP : Aquatic Chronic 1) H410

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.

Section 4: First Aid Measures

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.

Section 4: First Aid Measures (Continued)

Eye contact

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

Ingestion :

Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Symptoms relating to use : May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause drowsiness or dizziness.

Indication of any immediate medical 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).

Section 5: Fire and Explosion Data

Extinguishing media

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.

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.

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.

Section 6: Accidental Release Measures

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.

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.

Methods and materials 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.

Section 7: Handling and Storage

Precautions for safe handling

- Handling** : Handle empty containers with care because residual vapors 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 vapor. 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, vapors, spray.

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.

Section 7: Handling and Storage (Continued)

Specific end uses

Specific end use(s) : None.

Section 8: Exposure Controls/Personal Protection

Personal protection

- **Respiratory protection** : Avoid all unnecessary exposure.
: 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.

Control parameters

Occupational Exposure Limits : No data available.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state at 20 °C	: Liquid.
Colour	: Clear Colorless
Odour	: mild odor - gasoline-like
Odour threshold	: No data available.
pH value	: Not Applicable.
Melting point [°C]	: -91 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 223 °C
Flammability (solid, gas)	: Highly flammable liquid and vapour. Flammable.
Flash point [°C]	: -40 °C
Molacular Weight	: 100.21

Section 9: Physical and Chemical Properties (Continued)

Boiling point [°C]	: 98 °C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: 2.8
Vapour pressure [20°C]	: 5.3 kPa (@ 20°C)
Vapour pressure mm/Hg	: 46 mm Hg @ 25 deg C
Vapour density	: 3.5
Density [g/cm³]	: 0.68
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]	: N/A

Other information

Explosive properties	: N/A
Explosion limits - upper [%]	: 7%
Explosion limits - lower [%]	: 1,10%
Oxidising properties	: No data available.

Section 10: Stability and Reactivity Data

Reactivity

Reactivity : Not established.

Chemical stability

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous reactions : Not established.

Conditions to avoid

Section 10: Stability and Reactivity Data (Continued)

Conditions to avoid : Direct sunlight. Extremely high or low temperatures. Open Flame.

Incompatible materials

Materials to avoid : Strong acids. Strong bases.

Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.
May release flammable gases.

Section 11: Toxicological Information

Information on toxicological effects

Acute toxicity	: May be fatal if swallowed and enters airways
• Inhalation	: Based on available data, the classification criteria are not met.
• Dermal	: May be fatal if swallowed and enters airways.
• Ingestion	: Based on available data, the classification criteria are not met.
Corrosion	: Based on available data, the classification criteria are not met.
Irritation	: Causes skin 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	: Based on available data, the classification criteria are not met.
STOT-single exposure	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Based on available data, the classification criteria are not met.
Aspiration hazard	: May be fatal if swallowed and enters airways.

Section 12: Ecological Information

Toxicity

Toxicity information : Toxic to aquatic life with long lasting effects.

Section 12: Ecological Information (Continued)

Persistence – degradability

Persistence - degradability : May cause long-term adverse effects in the environment.

Bioaccumulative potential

Bioaccumulative potential : Not established.

Mobility in soil

Mobility in soil: Not established.

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.

Other adverse effects

Environmental precautions : Avoid release to the environment.

Section 13: Disposal Considerations

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.

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Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name : HEPTANES
UN N° : 1206
H.I. nr : 33
ADR - Class : 3
Labelling - Transport : 3 : Flammable liquid.
ADR - Group : II

Sea transport (IMDG) [English only]

Proper shipping name : HEPTANES
UN N° : 1206
IMO-IMDG - Class or division : 3 : Flammable liquid.
IMO-IMDG - Packing group : II

Air transport (ICAO-IATA) [English only]

Proper shipping name : HEPTANES
UN N° : 1206
IATA - Class or division : 3 : Flammable liquid.
IATA - Packing group : II

Section 15: Other Regulatory Information

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.

Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

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Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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