

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.
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Tel: +91 250 2390032 / 2390989 / 2390990

Email: sales@oxfordlabchem.com /
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Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEE

ISO-OCTANE

99% (Extra Pure)

MSDS CAS: 540-84-1

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: ISO-OCTANE 99% Extra Pure

CAS#: 540-84-1

Chemical Name: ISO-OCTANE 99% Extra Pure

Synonym: 2,2,4-TRIMETHYLPENTANE

Chemical Formula: C₈H₁₈

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
ISO-OCTANE	540-84-1	99.5%

Toxicological Data on Ingredients: Not Available.

Section 3: Hazards Identification

Classification EC 67/548 or EC 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)z:

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

Hazard statements:

H225 : Highly flammable liquid and vapour.

H304 : May be fatal if swallowed and enters airways.

H315 : Causes skin irritation.

H336 : May cause drowsiness or dizziness.

H410 : Very toxic to aquatic life with long lasting effects.

Precautionary statements:

• **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.

P261: Avoid breathing 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.

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Section 3: Hazards Identification (Continued)

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.

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.

Section 4: First Aid Measures

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

Skin Contact: Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Specific treatment (see on this label). Get medical advice. Wash contaminated clothing before reuse. If skin irritation occurs.

Serious Skin Contact: Not available.

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.

Serious Inhalation: Not available.

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

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

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** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment.

- 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:

Handle empty containers with care because residual vapours are flammable. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. 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. No naked lights. No smoking. Avoid breathing dust, fume, gas, mist, vapours, spray.

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.

Section 8: Exposure Controls/Personal Protection

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.

Occupational Exposure Limits: No data available.

Section 9: Physical and Chemical Properties

Physical state and appearance	: Liquid.
Odor	: Benzene-like.
Taste	: Not available.
Molecular Weight	: 114.23
Color	: Clear Colorless.
pH (1% soln/water)	: Not available.
Boiling Point	: Not available.
Melting Point	: -107.45°C
Critical Temperature	: Not available.
Specific Gravity	: Not available.
Vapor Pressure	: 5.4 kPa (@ 20°C).
Vapor Density	: 3,93

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Section 9: Physical and Chemical Properties (Continued)

Volatility	: Not available.
Odor Threshold	: Not available.
Water/Oil Dist. Coeff.	: Not available.
Ionicity (in Water)	: Not available.
Dispersion Properties	: Not available.
Solubility	: Insoluble.

Section 10: Stability and Reactivity Data

Stability	: Stable under recommended storage conditions..
Instability Temperature	: Not available.
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures. Open flame.
Incompatibility with various substances	: Not available.
Corrosivity	: Not available.
Special Remarks on Reactivity	: Not available.
Special Remarks on Corrosivity	: Not available.
Polymerization	: Will not occur.
Materials to avoid	: Strong acids. Strong bases.
Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide. May release flammable gases.

Section 11: Toxicological Information

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.
Sensitization : Based on available data, the classification criteria are not met.
Mutagenicity : Based on available data, the classification criteria are not met.

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Section 11: Toxicological Information (Continued)

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

Ecotoxicity: Very toxic to aquatic life with long lasting effects.

BOD5 and COD: Not available.

Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not available.

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

Bioaccumulative potential : Not established.

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.

Environmental precautions : Avoid release to the environment.

Section 13: Disposal Considerations

Waste Disposal: 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 : OCTANES

UN N° : 1262

ADR - Class : 3

Sea transport (IMDG) [English only]

Proper shipping name : OCTANES

UN N° : 1262

IMO-IMDG - Class or division : 3

IMO-IMDG - Packing group : II

Air transport (ICAO-IATA) [English only]

Proper shipping name : OCTANES

UN N° : 1262

IATA - Class or division : 3

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: Ensure all national/local regulations are observed.

regulations/legislation specific for the substance or mixture.

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 : 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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