

Material Safety Data Sheet (MSDS)

Product Name: Light Liquid Paraffin IP Grade

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Supplier:

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1. Identification of the Substance and Company

Product Name: Light Liquid Paraffin IP Grade

Chemical Name: Highly Refined Mineral Oil

Synonyms: Liquid Paraffin, White Mineral Oil, Paraffinum Liquidum, Mineral Oil

CAS Number: 8042-47-5

EC Number: 232-455-8

Chemical Nature: Highly Refined Mineral Hydrocarbon Oil

Recommended Use:

Used as a pharmaceutical excipient in oral and topical formulations, ointments, creams, lotions, cosmetics, food-contact applications (where permitted), personal care products, lubricants, and industrial applications requiring highly refined mineral oil.

2. Hazard Identification

GHS Classification: Light Liquid Paraffin IP Grade is generally not classified as hazardous under the Globally Harmonized System (GHS) when handled under normal conditions. However, aspiration of the liquid into the lungs following ingestion may present a health hazard.

Potential Health Effects:

Inhalation: Oil mist generated during heating or spraying may cause mild respiratory irritation.

Skin Contact: Prolonged or repeated contact may remove natural skin oils and cause dryness or mild irritation.

Eye Contact: Direct contact may produce temporary redness, watering, or slight irritation.

Ingestion: Low oral toxicity is expected. Large quantities may cause gastrointestinal discomfort. Aspiration into the lungs during vomiting may result in chemical pneumonitis.

Environmental Hazards: Large releases may contaminate soil or water surfaces. Prevent uncontrolled discharge into drains and waterways.

Precautionary Statements:

- Avoid unnecessary contact with eyes and skin.
- Avoid breathing oil mist.
- Keep away from excessive heat.
- Wash hands thoroughly after handling.
- Prevent environmental release.
- Keep container tightly closed.

3. Composition / Information on Ingredients

Light Liquid Paraffin IP Grade is a highly refined and purified mineral oil obtained from petroleum through extensive refining and purification processes. It consists predominantly of saturated aliphatic hydrocarbons (paraffinic and naphthenic hydrocarbons) with very low aromatic hydrocarbon content. The product complies with the applicable pharmacopoeial requirements for Indian Pharmacopoeia (IP) grade. No hazardous additives are intentionally incorporated unless otherwise specified in the product specification.

4. First Aid Measures

Inhalation: Move the affected person to fresh air. If respiratory irritation persists or breathing difficulty develops, obtain medical attention.

Skin Contact: Wash the affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse.

Eye Contact: Flush immediately with plenty of clean water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.

Ingestion: Rinse mouth thoroughly with water. Do not induce vomiting because aspiration into the lungs may occur. Obtain medical attention if a significant quantity has been swallowed or symptoms develop.

Most Important Symptoms:

- Mild skin dryness or irritation
- Temporary eye irritation
- Respiratory irritation from oil mist
- Gastrointestinal discomfort
- Aspiration into lungs may result in chemical pneumonitis

5. Fire Fighting Measures

Suitable Extinguishing Media: Dry chemical powder, Carbon dioxide (CO₂), Alcohol-resistant foam, Water spray or fog for cooling exposed containers.

Unsuitable Extinguishing Media: Do not use direct high-pressure water jets on burning oil.

Fire Hazards: Combustible liquid. Heating may produce combustible vapors and dense smoke.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, smoke, aldehydes, and irritating hydrocarbon decomposition products.

Protective Equipment: Firefighters should wear self-contained breathing apparatus (SCBA) and full protective clothing.

6. Accidental Release Measures

Personal Precautions:

- Avoid skin and eye contact.
- Eliminate slip hazards immediately.
- Ensure adequate ventilation.
- Wear suitable personal protective equipment.

Environmental Precautions: Prevent the material from entering drains, sewers, surface waters, or soil.

Cleanup Methods: Contain the spill with sand, earth, vermiculite, or another inert absorbent. Transfer collected material into suitable closed containers for disposal or recovery.

Clean contaminated surfaces thoroughly to eliminate residual oil and slip hazards.

7. Handling and Storage

Handling

- Handle using good industrial hygiene practices.
- Avoid generating oil mist.
- Avoid prolonged skin contact.
- Use clean dispensing equipment.

- Keep containers tightly closed when not in use.

Storage

Store in original tightly closed containers in a cool, dry, clean, and well-ventilated location.

Protect from direct sunlight, excessive heat, moisture, contamination, and oxidizing materials.

Recommended storage temperature is generally 15°C–30°C.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Provide adequate general ventilation. Use local exhaust ventilation where oil mist may be generated.

Personal Protective Equipment:

- **Respiratory Protection:** Normally not required. Use suitable respiratory protection if oil mist exceeds occupational exposure limits.
- **Eye Protection:** Safety glasses or chemical splash goggles.
- **Hand Protection:** Protective gloves resistant to mineral oils.
- **Skin Protection:** Protective clothing where prolonged exposure is expected.

9. Physical and Chemical Properties

Appearance: Clear, bright, colorless, transparent oily liquid

Odor: Practically odorless

Physical State: Liquid

pH: Not applicable

Specific Gravity: Approximately 0.82–0.88 at 25°C

Density: Approximately 0.82–0.88 g/cm³

Solubility: Practically insoluble in water; soluble in chloroform, ether, and hydrocarbon solvents

Viscosity: Depends on pharmacopoeial grade

Boiling Range: Greater than approximately 300°C

Flash Point: Generally above 160°C (Closed Cup)

Auto-Ignition Temperature: Approximately above 300°C

Explosive Properties: Not explosive

Oxidizing Properties: None

Vapor Pressure: Very low at ambient temperature

Vapor Density: Greater than air

10. Stability and Reactivity

Reactivity: Not reactive under normal handling conditions.

Chemical Stability: Stable under recommended storage conditions.

Conditions to Avoid: Excessive heat, Open flames, Strong sunlight, Prolonged exposure to oxidizing environments.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, smoke, and irritating hydrocarbon decomposition products.

11. Toxicological Information

Acute Toxicity: Low acute toxicity under normal conditions of use.

Skin Irritation: Prolonged contact may cause mild irritation or dryness.

Eye Irritation: May cause temporary irritation.

Respiratory Effects: Oil mist may irritate the respiratory tract.

Aspiration Hazard: Aspiration into the lungs following ingestion or vomiting may cause chemical pneumonitis.

Carcinogenicity: Highly refined pharmaceutical-grade mineral oils are generally not classified as carcinogenic under normal intended conditions of use.

Mutagenicity: No known mutagenic effects.

Reproductive Toxicity: No known reproductive toxicity under intended conditions of use.

12. Ecological Information

Ecotoxicity: Not expected to present significant environmental toxicity under normal conditions. Large releases may create a surface film on water.

Persistence and Degradability: Expected to degrade slowly in the environment.

Bioaccumulative Potential: Limited bioaccumulation is expected.

Mobility: Floats on water and has low mobility in soil.

Environmental Precautions: Avoid uncontrolled release into drains, rivers, lakes, or groundwater.

13. Disposal Considerations

Dispose of unused product, contaminated absorbents, and packaging in accordance with applicable local, regional, and national regulations.

Do not discharge into drains, sewers, or natural waterways.

Empty containers should be completely drained and recycled or disposed of through approved waste-management facilities.

14. Transport Information

Light Liquid Paraffin IP Grade is generally not classified as dangerous goods for transport under ADR/RID, IMDG, or IATA regulations when supplied as a highly refined pharmaceutical-grade mineral oil.

The product should be transported in clean, tightly sealed containers to prevent contamination, leakage, and deterioration of quality.

UN Number: Not regulated.

UN Proper Shipping Name: Not regulated.

Transport Hazard Class: Not regulated.

Packing Group: Not applicable.

Environmental Hazard: Not classified as environmentally hazardous for transport.

Marine Pollutant: No.

Road Transport (ADR/RID): Transport in properly sealed drums, HDPE containers, IBCs, or approved containers suitable for pharmaceutical mineral oils. Protect containers against physical damage, excessive heat, and contamination. Secure cargo to prevent movement and leakage during transportation.

Sea Transport (IMDG): Not normally regulated as dangerous goods under the IMDG Code. Containers should remain tightly closed and protected from seawater, excessive heat, direct sunlight, and contamination. Ensure cargo is properly secured throughout shipment.

Air Transport (IATA): Generally not regulated as dangerous goods for air transport. Leak-proof packaging suitable for air freight should be used to prevent leakage resulting from pressure changes.

Special Transport Precautions:

- Keep containers tightly closed during transportation.
- Protect from excessive heat, sunlight, and moisture.
- Prevent contamination with incompatible materials.
- Avoid physical damage to containers.
- Secure cargo to prevent movement during transit.
- Inspect containers before shipment.
- Clean spills immediately because spilled oil creates slip hazards.
- Use only clean vehicles and containers suitable for pharmaceutical products.
- Do not transport leaking or damaged containers.
- Follow all applicable national and international transportation regulations.

Transport in Bulk According to MARPOL Annex II and IBC Code: Bulk transport should be carried out only in approved tanks or vessels suitable for refined mineral oils and in accordance with applicable maritime regulations.

Emergency Transport Information: In the event of accidental leakage during transportation, isolate the affected area and eliminate slip hazards. Prevent entry into drains, soil, and waterways. Contain the spill using inert absorbent material such as sand or vermiculite and transfer it to suitable containers for disposal.

Personnel involved in cleanup should wear protective gloves, eye protection, and suitable protective clothing. Wash contaminated surfaces thoroughly after spill removal.

15. Regulatory Information

- Light Liquid Paraffin IP Grade should be handled in accordance with applicable pharmaceutical, occupational safety, environmental protection, transportation, and chemical handling regulations.
- When supplied as Indian Pharmacopoeia (IP) Grade, the material should comply with the relevant pharmacopoeial quality requirements for pharmaceutical use.

16. Other Information

The information contained in this Material Safety Data Sheet is based on current knowledge of Light Liquid Paraffin IP Grade and is intended to provide guidance for safe handling, storage, transportation, and disposal.

The physical properties and quality characteristics may vary slightly depending on manufacturing process, viscosity grade, and pharmacopoeial specification. Users should always consult the current Product Specification and Certificate of Analysis before use.

This MSDS does not constitute a warranty of product specifications or suitability for any particular purpose. Users are responsible for ensuring compliance with applicable local, national, and international regulations.

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- MSDS are based on the manufacturer's provided information.