

LIGHT LIQUID PARAFFIN (MINERAL OIL)

Date of compilation: 23-08-2026 | Revised: 23-08-2026 | Version: 1

SECTION 1: IDENTIFICATION

1.1 GHS Product identifier:

LIGHT LIQUID PARAFFIN (MINERAL OIL)
Liquid paraffin, light; White mineral oil, light; Paraffinum liquidum
CAS: 8012-95-1

Other means of identification:

Not relevant

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Lubricant base stock, cosmetics and personal care formulations, pharmaceutical excipient, textile/plastics processing aid, food-grade applications (where supplied to appropriate purity/specification). For industrial user only.
Uses advised against: All uses not specified in this section or in section 7.3. Food/pharma/cosmetic use only with appropriate grade certification and regulatory clearance.

1.3 Supplier's details:

SURAJ CHEMICALS
No 92, Govindappa Naicken Street, Shiva Complex, Chennai – 600001, Tamil Nadu, India
Tel: +91 - 7092722822, +91 - 9840284032 / +91 - 44 - 25393652, 42130281
Email: sales@surajchemicals.com | Website: www.surajchemicals.com
GST No: 33ACEPV8190L1ZZ

1.4 Emergency phone number:

Emergency Contact No: +91 - 7092722822, +91 - 9840284032

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GHS:
Classification of this product has been carried out in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Based on available data, Light Liquid Paraffin is **not classified** as hazardous under GHS criteria (highly refined mineral oil, low in aromatics/PAH per IP 346 and similar methods).

Not Classified	No hazard class meets GHS classification criteria based on available data
----------------	---

2.2 GHS label elements, including precautionary statements:

GHS: No signal word required

Hazard statements:

None required under GHS.

Precautionary statements:

P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/eye protection when handling in bulk.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501: Dispose of contents/container in accordance with local regulations.

2.3 Other hazards which do not result in classification:

Mist/aerosol generated during spraying or high-speed machining operations may present an inhalation nuisance (oil mist) hazard at high, sustained concentrations. Spilled oil presents a slip hazard.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

Chemical description: Highly refined mineral oil – mixture of saturated hydrocarbons (paraffinic/naphthenic), light viscosity grade.
In accordance with Annex 4.3.3 of the GHS, the product contains:

Identification	Chemical Name / Classification	Concentration
CAS: 8012-95-1	Light Liquid Paraffin (Mineral Oil) – Not classified	≥ 99%

To obtain more information on the hazards of the substances, consult sections 11, 12 and 16.

3.2 Mixtures:

Non-applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of necessary first-aid measures:

Low-hazard product; no special first-aid measures normally required. If symptoms persist, seek medical attention showing the SDS of this product.

By inhalation:

Not a normal route of exposure. If oil mist is inhaled, remove to fresh air and keep at rest.

By skin contact:

Remove contaminated clothing. Wash skin thoroughly with soap and water. Seek medical attention if irritation persists.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical advice if irritation persists.

By ingestion/aspiration:

Rinse mouth with water. Do NOT induce vomiting – low-viscosity mineral oils present an aspiration hazard if vomited and inhaled into the lungs. Seek medical attention.

4.2 Most important symptoms/effects, acute and delayed:

Generally low hazard. Aspiration into the lungs following ingestion/vomiting may cause chemical pneumonitis. See Sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Do not induce vomiting due to aspiration risk; seek immediate medical attention in case of ingestion.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:
Suitable: Water fog/spray, foam (AFFF), dry chemical powder (ABC), carbon dioxide (BC)
Unsuitable: High-pressure water jet (may splash and spread burning oil)

5.2 Specific hazards arising from the chemical:
Combustible liquid at elevated temperature. On heating/burning may produce irritating smoke, carbon monoxide and carbon dioxide.

5.3 Special protective actions for fire-fighters:
Evacuate non-essential personnel. Use self-contained breathing apparatus (SCBA) in enclosed/confined fire situations. Cool exposed containers with water spray.

Additional provisions:
Contain fire-fighting water run-off to prevent environmental contamination.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:
Avoid slipping on spilled product. Use appropriate PPE (Section 8).

For emergency responders:
Wear suitable protective equipment. Prevent material from entering drains/watercourses.

6.2 Environmental precautions:
Prevent entry into drains, sewers and watercourses. Bund/contain large spills.

6.3 Methods and materials for containment and cleaning up:
Contain spill, absorb with inert absorbent material (sand, earth, vermiculite), sweep/shovel into suitable closed containers for disposal or reclamation. Wash residual area with detergent and water; avoid creating a slip hazard.

6.4 Reference to other sections:
See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A. General precautions for safe use:
Avoid prolonged skin contact. Use with adequate ventilation where mist is generated (spraying, high-speed machining).

B. Technical recommendations for the prevention of fires and explosions:
Keep away from open flame/sources of ignition when heated above flash point.

C. Technical recommendations on general occupational hygiene:
Wash hands after handling. Do not eat or drink while handling the product.

D. Technical recommendations to prevent environmental risks:
Prevent spillage from entering drains or watercourses. Store in banded areas where large volumes are held.

7.2 Conditions for safe storage, including any incompatibilities:

A. Specific storage requirements:

Minimum Temp.	5°C
Maximum Temp.	40°C
Maximum time	24 Months (in original sealed packaging, cool/dry place)

B. General conditions for storage:
Store in tightly closed containers, away from direct sunlight and heat/ignition sources. Keep containers properly labelled.

7.3 Specific end use(s):
Industrial lubricant/process oil and raw material as described in Section 1.2. Except for the instructions already specified, no special recommendations are required.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Occupational exposure limit applicable to mineral oil mist, as commonly referenced in international OEL lists for oil mist, mineral:

Identification	Occupational Exposure Limit Type	Value
Oil mist, mineral (as generated from Light Liquid Paraffin) CAS: 8012-95-1	Time Weighted average concentration (8 hrs)	5 mg/m³
	Short-term exposure limit (15 min)	10 mg/m³

8.2 Appropriate engineering controls:

General ventilation is normally adequate. Use local exhaust ventilation where mist is generated (spraying, high-speed machining) to keep exposure below limits in 8.1.

B. Respiratory protection:
Not normally required under ambient conditions. Use a particulate/oil-mist respirator for spraying or high-mist operations.

C. Specific protection for the hands:
Chemical-resistant gloves (nitrile) recommended for prolonged/repeated contact.

D. Eye and face protection:
Safety glasses/goggles recommended where splashing is possible.

E. Bodily protection:
Chemical-resistant apron/overalls for bulk handling. Safety footwear recommended.

F. Additional emergency measures:
Eyewash station and washing facilities should be available in the work area.

Environmental exposure controls:
Avoid release to the environment. See subsection 7.1.D.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	
Physical state at 20°C	Liquid
Appearance	Clear, oily liquid
Color	Colourless to pale yellow
Odor	Odorless to faint
Odour threshold	Not established

Volatility	
Boiling point at atmospheric pressure	> 300°C (initial)
Vapour pressure at 20°C	< 0.1 Pa (negligible)
Evaporation rate at 20°C	Negligible
Product Description	
Density / Relative density at 20°C	0.83 – 0.86 g/cm³
Dynamic / Kinematic viscosity at 40°C	10 – 15 cSt (light grade, typical)
Concentration	Non-applicable (single substance category)
pH	Not relevant (water-insoluble oil)
Vapour density at 20°C	> 1 (heavier than air)
Partition coefficient n-octanol/water	> 6 (estimated, saturated hydrocarbon)
Solubility in water at 20°C	Insoluble
Decomposition temperature	Not established
Melting point/freezing point (pour point)	≤ -9°C (typical)
Flammability	
Flash Point	> 150°C (Cleveland Open Cup, typical, light grade)
Flammability (solid, gas)	Non-applicable (liquid)
Autoignition temperature	> 250°C (typical)
Lower / Upper flammability limit	Typical value – refer to current specification sheet
Particle Characteristics	
Median equivalent diameter	Non-applicable (liquid)

Values are typical for commercial-grade Light Liquid Paraffin – refer to current specification sheet for batch-specific figures.

9.2 Other information:

Explosive properties	Not relevant
Oxidising properties	Not an oxidiser
Corrosive to metals	Not corrosive
Heat of combustion	Typical value – refer to current specification sheet
Refraction index	1.46 – 1.48 (typical)
Aromatic content (IP 346)	< 3% (highly refined, low-aromatic grade, typical)

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity:
- Stable under normal conditions of use. May react with strong oxidising agents.
- 10.2 Chemical stability:
- Chemically stable under the indicated conditions of storage, handling and use.
- 10.3 Possibility of hazardous reactions:
- Under specified conditions, hazardous reactions are not expected.

10.4 Conditions to avoid:

Shock/Friction	Contact with Air	Increase in Temperature	Sunlight	Humidity
Not applicable	Not applicable	Avoid heating above flash point	Not applicable	Not applicable

10.5 Incompatible materials:

Strong Oxidisers	Heat Sources
Avoid contact	Avoid prolonged exposure

- 10.6 Hazardous decomposition products:
- Thermal decomposition/combustion may generate carbon monoxide and carbon dioxide; oil mist/fume at high temperature.

SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects:
- Light Liquid Paraffin (highly refined, low-aromatic mineral oil) is of low acute toxicity. Based on available data, classification criteria for GHS hazard classes are not met, apart from the recognised aspiration hazard on ingestion.
- A. Ingestion (acute effect):
- Low acute oral toxicity. The principal hazard is aspiration into the lungs if vomited – may cause chemical pneumonitis; do not induce vomiting.
- B. Inhalation (acute effect):
- Not a normal route of exposure. Oil mist at high, sustained concentrations may cause respiratory irritation.
- C. Contact with skin and eyes (acute effect):
- Generally considered non-irritating to mildly irritating; may cause transient irritation on repeated/prolonged contact.
- D. CMR effects (carcinogenicity, mutagenicity, reproductive toxicity):
- Highly refined white mineral oils of this type (low in polycyclic aromatics per IP 346/similar methods) are not classified as carcinogenic; classification criteria for carcinogenicity, mutagenicity and reproductive toxicity are not met based on available data. IARC: Not classifiable/not listed for highly refined grades.
- E. Sensitizing effects:
- Classification criteria for respiratory or skin sensitisation are not met based on available data.
- F. Specific target organ toxicity (STOT) – single exposure:
- Classification criteria are not met based on available data.
- G. Specific target organ toxicity (STOT) – repeated exposure:
- Classification criteria are not met based on available data.
- H. Aspiration hazard:
- Low-viscosity mineral oils may be aspirated into the lungs during ingestion/vomiting, causing chemical pneumonitis. Not classified under strict GHS Category 1 criteria for this family of products at the kinematic viscosity typically supplied, but aspiration risk should always be treated as a practical first-aid concern (see Section 4).

Product-specific toxicological information:

Identification	Acute Toxicity	Genus
Light Liquid Paraffin CAS: 8012-95-1	LD50 oral: > 5000 mg/kg	Rat
	LD50 dermal: > 5000 mg/kg	Rabbit

SECTION 12: ECOLOGICAL INFORMATION

Not expected to be hazardous to the aquatic environment under GHS criteria.

12.1 Toxicity:

Acute Toxicity	Species	Genus
LC50: > 1000 mg/L (96h) (Typical value – refer to current specification sheet)	Non-applicable	Fish

12.2 Persistence and degradability:

Inherently biodegradable to a limited extent; highly refined saturated hydrocarbon mixture.

12.3 Bioaccumulative potential:

Potential for bioaccumulation exists for some hydrocarbon fractions; not established for this specific product.

12.4 Mobility in soil:

Koc	Henry	Dry Soil	Moist Soil
Not established	Not relevant	Low mobility (viscous oil)	Low mobility

12.5 Results of PBT and vPvB assessment:

Does not meet PBT/vPvB criteria.

12.6 Other adverse effects:

May cause physical fouling (coating) of aquatic organisms/birds in case of large spills.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Collect for recycling/reprocessing (used-oil recovery) where possible, or dispose of via a licensed waste disposal contractor in accordance with national and local regulations. Do not discharge to drains or watercourses. Empty containers may retain residue; dispose of as per label instructions.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land (ADR 2023 / RID 2023):

14.1 UN number	Non-applicable – not classified as dangerous goods
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es)	Not applicable
14.4 Packing group	N/A
14.5 Environmental hazard	No
14.6 Special precautions for user	Physico-chemical properties: see section 9
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

Transport of dangerous goods by sea (IMDG 41-22):

14.1 UN number	Non-applicable – not classified as dangerous goods
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es)	Not applicable
14.4 Packing group	N/A
14.5 Marine pollutant	No
14.6 Special precautions for user	Non-applicable
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

Transport of dangerous goods by air (IATA/ICAO 2024):

14.1 UN number	Non-applicable
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es)	Not applicable
14.4 Packing group	N/A
14.5 Environmental hazard	No
14.6 Special precautions for user	Non-applicable
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of local circumstances, in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989
The Factories Act, 1948 (Act No. 63 of 1948), as amended by the Factories (Amendment) Act, 1987 (Act 20 of 1987)
Food Safety and Standards Act, 2006 (where applicable to food/pharma-grade material)

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Annex 4 – Guidance on the preparation of Safety Data Sheets of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Texts of the legislative phrases mentioned in sections 2 and 3:

Not applicable – product not classified as hazardous.

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

The United Nations Economic Commission for Europe (UNECE); publicly available GHS classification references for highly refined mineral/white oils.

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road | IMDG: International maritime dangerous goods code | IATA: International Air Transport Association | ICAO: International Civil Aviation Organisation | LD50: Lethal Dose 50 | LC50: Lethal Concentration 50 | Koc: Partition coefficient of organic carbon | IARC: International Agency for Research on Cancer | IP 346: Institute of Petroleum test method 346 (polycyclic aromatics in mineral oils)

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product; it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within Suraj Chemicals' awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

END OF SAFETY DATA SHEET