

LOW AROMATIC WHITE SPIRIT (LAWS)

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SECTION 1: IDENTIFICATION

1.1 GHS Product identifier:

LOW AROMATIC WHITE SPIRIT (LAWS)
Hydrotreated light distillate (petroleum); Mineral turpentine, low-aromatic; White spirit, low-aromatic grade
CAS: 64742-48-9

Other means of identification:

Not relevant

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Solvent for paints, varnishes and coatings; paint/brush thinner; general industrial cleaning and degreasing; extraction and process solvent. For industrial/commercial user only.
Uses advised against: All uses not specified in this section or in section 7.3. Not for use as a fuel. Not for consumer/retail repackaging without appropriate labelling and risk assessment.

1.3 Supplier's details:

SURAJ CHEMICALS
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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).

Flam. Liq. 3	Flammable liquids, Category 3, H226
Asp. Tox. 1	Aspiration hazard, Category 1, H304
Skin Irrit. 2	Skin irritation, Category 2, H315
STOT SE 3	Respiratory tract irritation/narcotic effects, single exposure, Category 3, H336
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic hazard, Category 2, H411

2.2 GHS label elements, including precautionary statements:

GHS: Danger

Hazard statements:

Flam. Liq. 3: H226 – Flammable liquid and vapour.
Asp. Tox. 1: H304 – May be fatal if swallowed and enters airways.
Skin Irrit. 2: H315 – Causes skin irritation.
STOT SE 3: H336 – May cause drowsiness or dizziness.
Aquatic Chronic 2: H411 – Toxic to aquatic life with long lasting effects.

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting equipment.
P243: Take precautionary measures against static discharge.
P261: Avoid breathing vapours/mist.
P264: Wash hands thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/eye protection.
P301+P310: IF SWALLOWED: Immediately call a poison centre/doctor.
P302+P352: IF ON SKIN: Wash with plenty of water.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P331: Do NOT induce vomiting.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P370+P378: In case of fire: Use appropriate extinguishing media (see section 5) to extinguish.
P391: Collect spillage.
P403+P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents/container in accordance with local/national regulations.

2.3 Other hazards which do not result in classification:

Not a PBT or vPvB substance based on available data. Vapour is heavier than air and may accumulate in low-lying/confined spaces.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

Chemical description: Low Aromatic White Spirit (hydrotreated/hydrodesulfurised light petroleum distillate; complex mixture of C9–C12 aliphatic and alicyclic hydrocarbons with low aromatic content, typically <2%)
In accordance with Annex 4.3.3 of the GHS, the product contains:

Identification	Chemical Name / Classification	Concentration
CAS: 64742-48-9	Low Aromatic White Spirit (hydrotreated light distillate, petroleum) — Flam. Liq. 3: H226; Asp. Tox. 1: H304; Skin Irrit. 2: H315; STOT SE 3: H336; Aquatic Chronic 2: H411 – Danger	100%

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

3.2 Mixtures:

This product is a UVCB substance (complex petroleum fraction); exact hydrocarbon distribution is grade-dependent – refer to current specification sheet.

SECTION 4: FIRST AID MEASURES

- 4.1 Description of necessary first-aid measures:**
Request medical assistance immediately, showing the SDS of this product.
- By inhalation:**
Remove the person affected from the area of exposure, provide fresh air and keep at rest. High vapour concentrations may cause drowsiness, dizziness and headache. Seek medical attention if symptoms persist.
- By skin contact:**
Remove contaminated clothing and footwear. Wash affected skin thoroughly with soap and water. Seek medical advice if irritation develops or persists.
- By eye contact:**
Rinse immediately with plenty of water for at least 15 minutes, holding eyelids apart. Remove contact lenses, if present and easy to do. Seek medical advice if irritation persists.
- By ingestion/aspiration:**
Do NOT induce vomiting – risk of aspiration into the lungs, which may be fatal (H304). Do not give anything by mouth. Seek medical attention immediately; call a poison centre/doctor and show this SDS.
- 4.2 Most important symptoms/effects, acute and delayed:**
Aspiration into the lungs following ingestion or vomiting may cause chemical pneumonitis, pulmonary oedema and may be fatal. Vapour inhalation may cause narcotic effects (drowsiness, dizziness). Causes skin irritation on prolonged/repeated contact. See section 11.
- 4.3 Indication of immediate medical attention and special treatment needed, if necessary:**
Due to aspiration hazard, gastric lavage and emesis are contraindicated. Specialist medical advice should be sought, with monitoring for signs of aspiration pneumonitis following any suspected ingestion.

SECTION 5: FIRE-FIGHTING MEASURES

- 5.1 Suitable extinguishing media:**
Suitable: Dry chemical powder, carbon dioxide (CO₂), alcohol-resistant foam, water spray/fog to cool exposed containers.
Unsuitable: High-pressure water jet (may spread burning liquid).
- 5.2 Specific hazards arising from the chemical:**
Flammable liquid and vapour. Vapour is heavier than air, may travel along the ground and be ignited by a distant ignition source. May form explosive vapour/air mixtures within the flammability range. Combustion may produce dense black smoke, carbon monoxide and carbon dioxide.
- 5.3 Special protective actions for fire-fighters:**
Evacuate non-essential personnel. Wear self-contained breathing apparatus and full fire-resistant protective clothing. Cool fire-exposed containers with water spray from a protected position.
- Additional provisions:**
Contain fire-fighting water run-off to prevent discharge to drains/watercourses (product floats on water and is an aquatic hazard).

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures:**
For non-emergency personnel:
Eliminate ignition sources. Ensure adequate ventilation. Avoid breathing vapours. Use PPE described in section 8.
- For emergency responders:**
Wear appropriate flame-resistant, chemical-resistant PPE and self-contained breathing apparatus as per section 8. Use intrinsically safe (explosion-proof) equipment only.
- 6.2 Environmental precautions:**
Prevent product from entering drains, sewers, soil or watercourses – toxic to aquatic life with long-lasting effects. Contain spillage using bunding where available. Notify the relevant authority in case of significant release to the environment.
- 6.3 Methods and materials for containment and cleaning up:**
Shut off leak if safe to do so. Contain spillage with absorbent inert material (sand, vermiculite, absorbent granules/pads/booms for water spills). Collect into closed, labelled, non-sparking containers for disposal. Ventilate the area thoroughly after clean-up.
- 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:
Handle away from heat, sparks, open flames and other ignition sources. Use only explosion-proof equipment in areas where vapours may accumulate. Avoid prolonged or repeated skin contact. Avoid breathing vapours/mist.
- B. Technical recommendations for the prevention of fires and explosions:**
Ground/bond all equipment used for transfer to prevent static discharge. Use non-sparking tools. Keep containers closed when not in use. Ensure adequate ventilation, especially in confined spaces.
- C. Technical recommendations on general occupational hygiene:**
Do not eat, drink or smoke while handling. Wash hands and exposed skin before breaks and after work. Remove and launder contaminated clothing before re-use.
- D. Technical recommendations to prevent environmental risks:**
Avoid release to the environment. Provide bunded storage for bulk quantities.
- 7.2 Conditions for safe storage, including any incompatibilities:**
A. Specific storage requirements:
- | | |
|---------------|--|
| Minimum Temp. | Ambient |
| Maximum Temp. | 30°C (store below flash point with margin) |
| Maximum time | Typical value – refer to current specification sheet (commonly 12–24 months, unopened) |
- B. General conditions for storage:**
Store in a dedicated flammable-liquids store, away from heat, ignition sources, strong oxidisers and direct sunlight, in tightly closed containers. For additional information see subsection 10.5.
- 7.3 Specific end use(s):**
Used as an industrial/paint-trade solvent and cleaning agent. Except for the instructions already specified, no special recommendation is required.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Control parameters:**
Substances whose occupational exposure limits have to be assessed in the workplace, per the Factories Act, 1948 (Act No. 63 of 1948), as amended by the Factories (Amendment) Act, 1987 (Act 20 of 1987):
- | Identification | Occupational Exposure Limit Type | Value |
|--|---|---|
| White Spirit (low aromatic)
CAS: 64742-48-9 | Time Weighted average concentration (8 hrs) | 100 ppm / ~575 mg/m ³ (typical published guidance for low-aromatic white spirit) |
| | Short-term exposure limit (15 min) | Typical value – refer to current specification sheet |
- 8.2 Appropriate engineering controls:**
Use local exhaust ventilation at the point of use, particularly in confined or poorly ventilated spaces, to keep vapour concentrations below occupational exposure limits and well below the lower explosive limit.
- B. Respiratory protection:**
Where ventilation is inadequate, use an organic vapour cartridge respirator. Use supplied-air respiratory protection for high vapour concentrations or confined-space work.

C. Specific protection for the hands:
Chemical-resistant gloves (e.g., nitrile, viton) recommended for prolonged or repeated handling.

D. Eye and face protection:
Safety glasses or chemical splash goggles where splashing may occur.

E. Bodily protection:
Antistatic, flame-resistant protective clothing recommended for bulk handling. Antistatic safety footwear.

F. Additional emergency measures:
Emergency shower and eyewash stations should be readily available in the work area.

Environmental exposure controls:
Avoid environmental release. 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 mobile liquid
Color	Colorless to pale straw
Odor	Mild petroleum/hydrocarbon odor (low due to reduced aromatic content)
Odour threshold	Typical value – refer to current specification sheet
Volatility	
Boiling range at atmospheric pressure	~150–200°C (typical distillation range)
Vapour pressure at 20°C	<1 mbar (low)
Evaporation rate at 20°C	Slow (relative to common solvents such as acetone)
Product Description	
Density / Relative density at 20°C	~0.78–0.80 g/cm³ (typical)
Dynamic / Kinematic viscosity	Typical value – refer to current specification sheet (~1.1–1.5 mm²/s at 20°C, typical)
Concentration	100% (typical commercial grade)
pH	Not relevant (water-insoluble hydrocarbon)
Vapour density at 20°C	>1 (heavier than air)
Partition coefficient n-octanol/water 20°C	Log Pow: >3 (lipophilic hydrocarbon mixture, typical)
Solubility in water at 20°C	Practically insoluble
Decomposition temperature	Typical value – refer to current specification sheet
Melting point/freezing point	Typical value – refer to current specification sheet (below -20°C, typical)
Flammability	
Flash Point	~40–60°C (closed cup, grade dependent)
Flammability (solid, gas)	Non-applicable (liquid); flammable liquid
Autoignition temperature	>220°C (typical for this hydrocarbon class)
Lower / Upper flammability limit	~0.6–7% (v/v), typical
Particle Characteristics	
Median equivalent diameter	Non-applicable (liquid)

9.2 Other information:

Explosive properties	Not explosive
Oxidising properties	Not oxidising
Corrosive to metals	Not corrosive to common metals
Heat of combustion	Typical value – refer to current specification sheet
Surface tension at 20°C	Typical value – refer to current specification sheet
Refraction index	Typical value – refer to current specification sheet

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:
Stable under normal conditions of use and storage. Reacts with strong oxidising agents. Vapour/air mixtures may be explosive within the flammability range.

10.2 Chemical stability:
Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:
Under the specified conditions, hazardous reactions beyond fire/explosion risk from vapour accumulation are not expected.

10.4 Conditions to avoid:

Shock/Friction	Contact with Air	Increase in Temperature	Sunlight	Humidity
Not applicable	Not applicable	Keep away from heat/ignition sources (flash point ~40–60°C)	Avoid prolonged direct exposure	Not particularly sensitive (water-insoluble)

10.5 Incompatible materials:

Strong Oxidisers	Strong Acids/Alkalis	Ignition/Heat Sources	Halogens
Avoid contact	Avoid contact	Keep away	Avoid contact

10.6 Hazardous decomposition products:
Combustion generates carbon monoxide, carbon dioxide and dense smoke.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

In case of exposure that is repetitive, prolonged, or at concentrations higher than the recommended occupational exposure limits, adverse health effects may result depending on the means of exposure:

A. Ingestion (acute effect):

Low acute oral toxicity; however, the principal hazard on ingestion is aspiration into the lungs (during swallowing or if vomiting is induced), which may be fatal – see section 4.

B. Inhalation (acute effect):

Vapours may cause irritation of the respiratory tract and, at elevated concentrations, narcotic effects (drowsiness, dizziness, headache).

C. Contact with skin and eyes (acute effect):

Causes skin irritation, particularly on prolonged or repeated contact (degreasing effect on skin). May cause eye irritation on direct contact.

D. CMR effects (carcinogenicity, mutagenicity, reproductive toxicity):

Classification criteria for carcinogenicity, mutagenicity and reproductive toxicity are not met based on available data for this low-aromatic, low-benzene grade. IARC: Not classifiable for this specific low-aromatic distillate.

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:

May cause drowsiness or dizziness (narcotic effects) – H336.

G. Specific target organ toxicity (STOT) – repeated exposure:

Classification criteria are not met based on available data under current commercial classification for this grade; prolonged/repeated skin contact should nonetheless be avoided.

H. Aspiration hazard:

May be fatal if swallowed and enters airways – H304. See section 4.

Product-specific toxicological information:

Identification	Acute Toxicity	Genus
Low Aromatic White Spirit CAS: 64742-48-9	LD50 oral: >5000 mg/kg	Rat
	LD50 dermal: >2000 mg/kg	Rabbit
	LC50 inhalation: >5 mg/L (4h, vapour)	Rat

SECTION 12: ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects.

12.1 Toxicity:

Acute Toxicity	Species	Genus
LL50: ~1–10 mg/L (96h, typical range for this hydrocarbon class)	Non-applicable	Fish
EL50: Typical value – refer to current specification sheet	Non-applicable	Crustacean

12.2 Persistence and degradability:

Inherently biodegradable but may persist in the environment under certain conditions due to limited water solubility; floats and spreads on water surfaces.

12.3 Bioaccumulative potential:

Potential for bioaccumulation in aquatic organisms given the high log Pow typical of this hydrocarbon class.

12.4 Mobility in soil:

Koc	Henry	Dry Soil	Moist Soil
High	Moderate	Low mobility (adsorbs to organic matter)	Low mobility

12.5 Results of PBT and vPvB assessment:

Not expected to meet PBT/vPvB criteria as a whole substance, though component-specific considerations may apply – refer to current specification sheet.

12.6 Other adverse effects:

May form a surface film on water that can physically affect aquatic organisms and gas exchange.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Dispose of in accordance with local, state and national regulations via a licensed hazardous-waste disposal contractor. Do not discharge to drains or water courses. Empty containers may retain flammable product residue and vapour – handle with the same precautions as the full product.
Refer to national and local regulations on hazardous waste management.

SECTION 14: TRANSPORT INFORMATION

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

14.1 UN number	UN1300
14.2 UN proper shipping name	WHITE SPIRIT
14.3 Transport hazard class(es)	3
14.4 Packing group	III
14.5 Environmental hazard	Yes
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	UN1300
14.2 UN proper shipping name	WHITE SPIRIT
14.3 Transport hazard class(es)	3
14.4 Packing group	III
14.5 Marine pollutant	Yes
14.6 Special precautions for user	EmS Codes: F-E, S-E
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	UN1300
14.2 UN proper shipping name	WHITE SPIRIT

14.3 Transport hazard class(es)	3
14.4 Packing group	III
14.5 Environmental hazard	Yes
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

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. This product is subject to applicable petroleum/flammable-substance storage and licensing regulations.

Other legislation:

- Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
- The Petroleum Act, 1934 and Petroleum Rules, 2002
- The Factories Act, 1948 (Act No. 63 of 1948), as amended by the Factories (Amendment) Act, 1987 (Act 20 of 1987)
- The Chemical Accidents (Emergency Planning, Preparedness, and Response) Rules, 1996
- Public Liability Insurance Act, 1991

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:

- H226: Flammable liquid and vapour.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H336: May cause drowsiness or dizziness.
- H411: Toxic to aquatic life with long lasting effects.

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:

Training is recommended for personnel handling this product, covering safe storage, correct PPE use, the aspiration hazard (never induce vomiting) and emergency fire-response procedures.

Principal bibliographical sources:

Published GHS classification references and standard commercial/regulatory SDS databases for Low Aromatic White Spirit (hydrotreated light distillate, petroleum), CAS 64742-48-9.

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 | LL50 / EL50: Lethal / Effective Loading 50 (UVCB substances) | Log-POW: Octanol-water partition coefficient | Koc: Partition coefficient of organic carbon | IARC: International Agency for Research on Cancer | UVCB: Substance of Unknown or Variable composition, Complex reaction products or Biological materials

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