

MATERIAL SAFETY DATA SHEET



Product name: Athens Marine Grease Li EP2
Supersedes date: November 2024
Product No.: GRLi2

Page: 7
Revision: August 2025
SDS-ID: A/Li-EP/2/2024

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name: Athens Marine Grease Li EP2
Container size: -

1.2. Relevant identified uses of the substance or mixture and uses advised against

Application: Lubricating Lithium Grease.

1.3. Details of the supplier of the safety data sheet

Supplier: Athens Marine Lubricants LLC
PO Box: 111541
Dubai, UAE.
Tel: +971 4 258 7297
www.athenmarine.com

Emergency contact: Tel: +971 50 483 4180

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

GHS: The product is not classified.

2.2. Label elements

The substance/mixture does not meet the criteria for classification and labelling.

2.3. Other hazards

PBT/vPvB: Not applicable.

Other: Prolonged or repeated contact with used grease may cause serious skin diseases, such as dermatitis. The harmful effects may increase in used grease.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Composition: Lithium soap, thickener and highly refined mineral base oil

The product is not considered to be hazardous and does not contain hazardous components at or above regulated limits. DMSO extract <3%-IP 346, soap thickener and performance additives.

Ingredient Name	% (w/w)	CAS Number
Asphalt	≥50 - ≤75	8052-42-4
Base oil - highly refined	≥25 - ≤50	Varies

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SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation: Move into fresh air and keep at rest. In case of persistent throat irritation or coughing: Seek medical attention and bring these instructions.

Skin contact: Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

Ingestion: Rinse mouth with water. Drink 1-2 glasses of water. Do not induce vomiting. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects: Defatting, drying and cracking of skin.

4.3. Indication of any immediate medical attention and special treatment needed

Medical attention/treatments: Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards: When heated and in case of fire, harmful vapours/gases may be formed. Fire in closed areas should only be extinguished by trained personnel.

5.3. Advice for firefighters

Protective equipment for firefighters: Evacuate personnel from immediate vicinity. Wear self-contained breathing apparatus and full personal protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Mark the spillage. In case of spills, beware of slippery floors and surfaces.

6.2. Environmental precautions

Environmental precautions: Do not contaminate water sources or sewer.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Dam and absorb spillages with sand, earth or other non-combustible material.

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6.4. Reference to other sections

Reference: For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Safe handling advice: Observe good chemical hygiene practices. Avoid inhalation of oil mist and contact with skin and eyes. Avoid prolonged and repeated contact with oil, particularly used oil. Wash hands before breaks and before smoking, eating or drinking.

Technical measures: Use work methods which minimize oil mist production. Do not smoke or use open fire or other sources of ignition.

Technical precautions: When working with heated oil, mechanical ventilation may be required.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures for safe storage: Store in tightly closed original container in a well-ventilated place.

Storage conditions: Store in tightly closed original container in a well-ventilated place. Protect from heat and direct sunlight.

7.3. Specific end use(s)

Specific use(s): Lubricant.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational Exposure Limits:

Component	Agency	Form	TWA	STEL	Ceiling	Notation
Highly refined mineral oil (C15 - C50)	ACGIH	--	5 mg/m3	10 mg/m3	--	--
Highly refined mineral oil (C15 - C50)	OSHA Z-1	--	5 mg/m3	--	--	--

Consult local authorities for appropriate values

8.2. Exposure controls

Engineering measures: Provide adequate ventilation. Minimize the risk of inhalation of vapours from heated grease.

Respiratory equipment: If the product is heated under manual handling, use suitable mask with filter A1P2 or A2P2.

Hand protection: Nitrile gloves are recommended. If signs of wear and tear are noticed then the gloves should be replaced. The most suitable glove must be chosen in collaboration with the gloves supplier, who can inform about the breakthrough time of the glove material.

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Eye protection: Risk of splashes: Wear approved safety goggles.
Skin protection: Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures: Wash hands after handling. Observe good chemical hygiene practices. When using do not eat, drink or smoke. Always remove grease with soap and water or skin cleaning agent, never use organic solvents.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Semi-solid
Colour: Brown
Odour: Characteristics
Physical state: Semi-solid
pH: Not applicable.
Melting point / freezing point: Not available.
Boiling point: Not available.
Flash point: >200°C(base oil)
Evaporation rate: Not available.
Flammability (solid, gas): Not applicable.
Explosion limits: Not available.
Vapour pressure: Not available.
Vapour density: Not available.
Relative density: <1 kg/m³
Solubility: Not available.
Partition coefficient (n-octanol/water): Not available.
Auto-ignition Not available.
Drop Point (°C): >180 °C
Decomposition temperature (°C): Not available.
Consistency: 285 mm
Explosive properties: Not explosive
Oxidising properties: Not available

9.2. Other information

Not available.

Other data:

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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity: Not reactive.

10.2. Chemical stability

Stability: Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: None known

10.4. Conditions to avoid

Conditions/materials to avoid: Heat, sparks, flames.

10.5. Incompatible materials

Incompatible materials: Strong oxidizing substances.

10.6. Hazardous decomposition products

Hazardous decomposition products: None under normal conditions. Hazardous polymerisation will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity (Oral): Based on available data, the classification criteria are not met.

Acute Toxicity (Dermal): Based on available data, the classification criteria are not met.

Acute Toxicity (Inhalation): Based on available data, the classification criteria are not met.

Skin Corrosion/Irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met

Germ cell mutagenicity: Based on available data, the classification criteria are not met

Carcinogenicity: Based on available data, the classification criteria are not met

Reproductive Toxicity: Based on available data, the classification criteria are not met

STOT - Single exposure: Based on available data, the classification criteria are not met

STOT - Repeated exposure: Based on available data, the classification criteria are not met

Aspiration hazard: Based on available data, the classification criteria are not met

Inhalation: Inhalation of oil mist or vapours formed during heating of the product may irritate the respiratory system and provoke throat irritation and coughing.

Skin contact: Prolonged or repeated contact with used oil may cause serious skin diseases, such as dermatitis.

Eye contact: May cause temporary eye irritation.

Ingestion: Low order of acute toxicity, but aspiration following ingestion and vomiting may cause severe and potentially fatal chemical pneumonitis .

Specific effects: Used oil may contain harmful contaminants.

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity: Not harmful to aquatic organisms. Expected LC/EC50 value > 100 mg/l

12.2. Persistence and degradability

Degradability: Potentially degradable, but will persist in the environment for long periods.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available on bioaccumulation.

12.4. Mobility in soil

Mobility: Spillages may penetrate the soil causing ground water contamination

12.5. Results of PBT and vPvB assessment

PBT/vPvB: Not known.

12.6. Other adverse effects

Other adverse effects: Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste is classified as hazardous waste. Dispose of waste and residues in accordance with local authority requirements.

Contaminated packaging: Disposal through approved facilities is recommended.

SECTION 14: TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and modespecific or quantity-specific shipping requirements.

	DOT	TDG	IATA	IMDG/IMO
UN Number	UN2680	UN2680	UN2680	UN2680
Proper Shipping Name	Lithium Complex	Lithium Complex	Lithium Complex	Lithium Complex
Hazards Class	8	8	8	8
Packing Group	II	II	II	II

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SECTION 15: OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

Change to Sections: 3.

Wording of H-statements:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature.