

Created: 29 Sep 2023 Revised: 29 Sep 2023

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Product Name: LITHIUM EP 2
- Product Part Number: GRE001

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

- Use of the substance/mixture: Grease, Lubricant, Release agent
- Use advised against: Do not use in any other application. For specific application information consult Technical Data Sheet.

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Aztec Oils Ltd
- Address of Supplier: Intake Road
Bolsover Business Park,
Bolsover,
Derbyshire,
S44 6BB,
UK
- Telephone: +44 (0)1246 823007
Monday-Thursday 08:00 - 17:00
Friday 08:00 - 16:00, GMT/BST
- Email: Technical@aztecoils.co.uk
- Name of Supplier: Aztec Oils Europe BV
- Address of Supplier: Centraleweg 11-E
4931 NA
Geertruidenberg
THE NETHERLANDS
- Telephone: +31 (0)162-51 93 95
Monday - Friday 08:30 - 17:00
- Email: Info@aztecoilseurope.nl

1.4 Emergency telephone number

- Emergency Telephone: For UK and Northern Ireland Tel: 999 or 101., For ROI dial 999 or 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- CLP: Not Classified

2.2 Label elements

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SECTION 2: Hazards identification (....)

- Signal Word: Not Classified

2.2.1 Hazard statements

Not Classified

2.2.2 Precautionary statements

Not Classified

Keep out of reach of children (P102).

Dispose of contents and/or container in accordance with local/ national regulations (P501).

2.3 Other hazards

- This product does not contain any PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

3.2.1 Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil - unspecified

CAS Number:	64742-52-5
EC Number:	265-155-0
REACH Registration Number:	01-2119467170-45
Index No.:	649-465-00-7
Specific Concentration Limits:	Not assigned.
M factor, acute:	Not applicable.
M factor, chronic:	Not applicable.
Concentration:	≥80%
H Statements:	Not applicable
Categories:	Not Classified

3.2.2 Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts

CAS Number:	85940-28-9
EC Number:	288-917-4
REACH Registration Number:	01-2119521201-61
Index No.:	Not applicable.
Specific Concentration Limits:	Not assigned.
M factor, acute:	Not applicable.
M factor, chronic:	Not applicable.
Concentration:	<3%
H Statements:	H315, H318, H411
Categories:	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2

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SECTION 4: First aid measures**4.1 Description of first aid measures****4.1.1 Inhalation**

If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

4.1.2 Contact with eyes

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses (if easy to do so). Get medical attention.

4.1.3 Contact with skin

Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

4.1.4 Ingestion

Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed**4.2.1 Ingestion**

May cause gastro-intestinal disturbances.

4.2.2 Contact with eyes

May cause redness and irritation.

4.2.3 Contact with skin

May cause redness and irritation.
Repeated exposure may cause skin dryness or cracking (EUH066).

4.2.4 Inhalation

May cause irritation.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment should be symptomatic and directed to relieving any effects.
- Note: High Pressure Applications.
- Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimise tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes

SECTION 5: Firefighting measures

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SECTION 5: Firefighting measures (....)**5.1 Extinguishing media**

- Extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog. Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture

- If heated or in cases of fire, pressure in a vessel will increase and container may burst.
- Combustion products may include: carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide), metal oxide/ oxides, phosphorous oxides and sulphur oxides (SO, SO₂, etc..)

5.3 Advice for firefighters

- Promptly isolate and secure the scene, remove all unnecessary and untrained persons from the vicinity if there is a fire. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European Standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures**Spillage causes slippery surface****6.1 Personal precautions, protective equipment and emergency procedures**

- Stop leak, if safe to do so.
- Absorb with sand or other inert absorbant. Collect in containers and seal securely.
- Adopt best manual handling considerations when handling, carrying and dispensing.
- Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations. If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions to follow.

6.2 Environmental precautions

- Do not allow product to enter drains. Prevent further spillage if safe. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

- Stop leak, if safe to do so.
- Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.
- Dispose of in compliance with all local and national regulations.

6.4 Reference to other sections

- See Section 1 for emergency contact information.
See Section 5 for firefighting measures.
See Section 8 for information on appropriate personal protective equipment.
See Section 12 for environmental precautions.
See Section 13 for additional waste treatment information.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Use appropriate personal protective equipment.
- Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

- Store in accordance with local regulations.
- Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

7.3 Specific end use(s)

- The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- If this product contains ingredients with exposure limits, personal and/or workplace atmosphere monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Substances

Chemical Name	WEL (short term)	WEL (long term)
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil -unspecified	- mg/m ³ (UK) - mg/m ³ (IE)	5 mg/m ³ (UK) 5 mg/m ³ (IE)

Substances

Chemical Name	DNEL (Industry; inhalational, long term systemic effects)	DNEL (Industry; dermal, long term systemic effects)	DNEL (Industry; oral, long term systemic effects)
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil -unspecified	2.73 mg/m ³	0.97 mg/kg bw/day	- mg/kg bw/day

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SECTION 8: Exposure controls/personal protection (....)

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	6.6 mg/m ³	9.6 mg/kg bw/day	- mg/kg bw/day
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Substances

Chemical Name	DNEL (Consumer; inhalational, long term systemic effects)	DNEL (Consumer; dermal, long term systemic effects)	DNEL (Consumer; oral, long term systemic effects)
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil -unspecified	- mg/m ³	- mg/kg bw/day	0.74 mg/kg bw/day
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	1.67 mg/m ³	4.8 mg/kg bw/day	0.19 mg/kg bw/day

8.2 Exposure controls

- A full risk assessment should be undertaken before handling this material.



- Engineering Controls:
 - All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.
- Eye Protection:
 - If contact is likely, safety glasses are recommended.
- Hand protection:
 - Because specific work environments and material handling practices vary, safety procedures should be developed for each application. The right choice of protective gloves depends on the chemicals used and the working conditions and use. Recommended: Nitrile or alternative suitable gloves. "Breakthrough time" shows how long the gloves can have effective resistance. Always consult with your glove supplier for the latest breakthrough technical information.
- Skin and Body Protection:
 - Wear appropriate clothing as protection against splashing.
 - In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

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SECTION 8: Exposure controls/personal protection (....)

- Hygiene Measures:
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking.
Routinely wash work clothing and protective equipment to remove contaminants.
- Respiratory Protection:
No Special requirements under ordinary conditions of use and with adequate ventilation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Colour: Brown
- Appearance: Grease
- Physical state: Liquid
- Odour: Characteristic odour
- Density: 0.88 - 0.93 g/cm³ at 15 °C
- Solubility in water: Immiscible with water
- Boiling Point/Range: No information available.
- Melting point/Range: ≥180°C
- Freezing point/Range: No information available.
- Flashpoint: >200°C
- Autoignition Temperature: >230°C

9.2 Other information

- No experimental data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

- No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.

10.2 Chemical stability

- Considered stable under normal conditions.

10.3 Possibility of hazardous reactions

- None under normal processing.
- Hazardous polymerisation does not occur.

10.4 Conditions to avoid

- Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials

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SECTION 10: Stability and reactivity (....)

- Incompatibility with other materials: Incompatible with oxidizing substances

10.6 Hazardous decomposition products

- Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

- No experimental data available.

Substances

Chemical Name	LC ₅₀ (inhalation, rat)	LD ₅₀ (dermal, rabbit)	LD ₅₀ (oral, rat)
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil -unspecified	>5 mg/l/4h	>5000 mg/kg	>5000 mg/kg
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	>2.3 mg/l	>20000 mg/kg	3080 mg/kg

11.1.1 Inhalation

May cause irritation.

11.1.2 Contact with eyes

May cause redness and irritation.

11.1.3 Contact with skin

May cause redness and irritation.

11.1.4 Ingestion

May cause gastro-intestinal disturbances.

11.2 Information on other hazards

- No information available.

SECTION 12: Ecological information**12.1 Toxicity**

- No experimental data available

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SECTION 12: Ecological information (...)
Substances

Chemical Name	IC ₅₀ (algae)	EC ₅₀ (daphnia)	LC ₅₀ (fish)
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil -unspecified	>100 mg/l (72hr)	10000 mg/l (48hr)	>100 mg/l (96 hr)
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	2.1 mg/l (72hr)	5.4 mg/l (48hr)	4.5 mg/l (96 hr)

12.2 Persistence and degradability

- No experimental data available.

12.2.1 Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil - unspecified

Inherently biodegradable.

12.2.2 Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts

Not readily biodegradable.

12.3 Bioaccumulative potential

- The product has limited potential for bioaccumulation. The product is not expected to bioaccumulate through food chains in the environment.

12.4 Mobility in soil

- Immiscible with water.

12.5 Results of PBT and vPvB assessment

- This product does not contain any PBT or vPvB substances.

12.5.1 Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil - unspecified

Not Classified as PBT/vPvB by current EU criteria.

12.5.2 Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts

Not Classified as PBT/vPvB by current EU criteria.

12.6 Endocrine disrupting properties

- Not applicable.

12.7 Other adverse effects

- Spillages are unlikely to penetrate the soil.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Dispose of in compliance with all local and national regulations.
- Where possible, arrange for product to be recycled.

13.2 Classification

- For classification and assessment of waste, refer to technical guidance WM3 (Appendix A) or EWC (European Waste Catalogue) codes for hazardous and non-hazardous waste, where appropriate.

SECTION 14: Transport information

14.1 UN number or ID number

- Not applicable.

14.2 UN proper shipping name

- Not applicable.

14.3 Transport hazard class(es)

- Not applicable.

14.4 Packing group

- Not applicable.

14.5 Environmental hazards

- Presents no hazard to the environment.

14.6 Special precautions for user

- No special precautions are required for this product

14.7 Maritime transport in bulk according to IMO instruments

- Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- This Safety Data Sheet is provided in compliance with the EC Regulations 1907/2006, 1272/2008, 2015/830 and 2020/878
- This SDS has been compiled according to UK SI 2019/758 and EC 1272/2008 as amended in the UK.

15.2 Chemical safety assessment

- A chemical safety assessment (CSA) for this product has not yet been completed

SECTION 16: Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H315: Causes skin irritation. H318:

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SECTION 16: Other information (....)

Causes serious eye damage. H411: Toxic to aquatic life with long lasting effects.

Disclaimer

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process