

Revision date 27-Mar-2024

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Revision Number 2.04

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

### 1.1. Product identifier

Product Name **Maxol Lithium Complex (Blue)**

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

Recommended use Lubricating grease.  
Uses advised against No information available.

### 1.3. Details of the supplier of the safety data sheet

**Manufacturer**  
Maxol Lubricants Limited,  
Unit D Airport Business Campus,  
Santry  
Dublin 9  
D09 YW74

For further information, please contact

**E-mail address**  
Lubricants@maxol.ie

### 1.4. Emergency telephone number

Europe	112
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to  
Regulation (EC) No. 1272/2008 [CLP]**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

**EU Specific Hazard Statements**  
EUH210 - Safety data sheet available on request

### 2.3. Other hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

This product does not contain any known or suspected endocrine disruptors.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable.

**3.2 Mixtures**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Chemical name	Weight-%	REACH registration number	CAS No.	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Dilithium azelate	2.5-5	01-21201198 14-57	38900-29-7	254-184-4	Acute Tox. 4 (H302)	-	-	-

**Ingredient comments**

This product is a lithium complex grease based on mineral oil with additives. The mineral oils in the product contain <3% DMSO-extract (IP 346).

**Full text of H- and EUH-phrases: see section 16**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

**SECTION 4: First aid measures****4.1. Description of first aid measures**

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapours.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
<b>Skin contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting without medical advice. Get medical attention if symptoms occur.
<b>Self-protection of the first aider</b>	No information available.

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

<b>Symptoms</b>	No information available.
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**4.3. Indication of any immediate medical attention and special treatment needed**

<b>Note to doctors</b>	Treat symptomatically.
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**SECTION 5: Firefighting measures****5.1. Extinguishing media**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not use a solid water stream as it may scatter and spread fire.

## **5.2. Special hazards arising from the substance or mixture**

**Specific hazards arising from the chemical** Fire may produce irritating, corrosive and/or toxic gases.

## **5.3. Advice for firefighters**

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

# **SECTION 6: Accidental release measures**

## **6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation. Extremely slippery when spilled.

**For emergency responders** Use personal protection recommended in Section 8.

## **6.2. Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

## **6.3. Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## **6.4. Reference to other sections**

**Reference to other sections** See section 8 for more information. See section 13 for more information.

# **SECTION 7: Handling and storage**

## **7.1. Precautions for safe handling**

**Advice on safe handling** Ensure adequate ventilation. Avoid contact with eyes and prolonged or repeated contact with skin.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## **7.2. Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Store at temperatures not exceeding 45 °C/ 113 °F.

## **7.3. Specific end use(s)**

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Dilithium azelate 38900-29-7	-	-	TWA: 0.2 mg/m <sup>3</sup>	-	-

**Biological occupational exposure limits** This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

### 8.2. Exposure controls

**Engineering controls** Eyewash stations. Ventilation systems.

#### Personal protective equipment



**Hand protection** Wear suitable gloves tested to EN 374. Nitrile rubber. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.

**Eye/face protection** No special protective equipment required. If splashes are likely to occur, wear safety glasses with side-shields.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** None under normal use conditions. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Prevent product from entering drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Physical state** Paste / Gel Liquid

Appearance	Semi-solid
Colour	blue
Odour	No information available
Odour threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point		Not applicable
Initial boiling point and boiling range		Not applicable
Flammability		No information available
Flammability Limit in Air		No information available
Upper flammability or explosive limits	No data available	No information available
Lower flammability or explosive limits	No data available	No information available
Flash point	> 150 °C / > 302 °F	Based on base oils
Autoignition temperature		Not applicable
Decomposition temperature		No information available
pH		Not applicable
pH (as aqueous solution)		No information available
Kinematic viscosity	> 20.5 mm <sup>2</sup> /s	@ 40 °C
Dynamic viscosity	No data available	No information available
Water solubility	Insoluble in water	
Solubility(ies)		No information available
Partition coefficient	No data available	Not applicable
Vapour pressure		Not applicable
Relative density		No information available
Bulk density	No data available	
Liquid Density	< 1000 kg/m <sup>3</sup> @ 25 °C / 77 °F	
Relative vapour density	No data available	Not applicable
Particle characteristics		Not applicable
Particle Size	No information available	
Particle Size Distribution	No information available	

## 9.2. Other information

VOC content	Not applicable
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### *9.2.1. Information with regards to physical hazard classes*

Explosive properties	None under normal use conditions
Oxidising properties	No information available

### *9.2.2. Other safety characteristics*

Evaporation rate	No information available
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	Stable.
Stability	Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal processing.
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**Hazardous polymerisation** Hazardous polymerisation does not occur.

## 10.4. Conditions to avoid

**Conditions to avoid** Excessive heat.

## 10.5. Incompatible materials

**Incompatible materials** Strong oxidising agents.

## 10.6. Hazardous decomposition products

**Hazardous decomposition products** None under normal use conditions.

## **Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

# SECTION 11: Toxicological information

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Product Information** Product does not present an acute toxicity hazard based on known or supplied information.

## Information on likely routes of exposure

<b>Inhalation</b>	Not an expected route of exposure. Specific test data for the substance or mixture is not available.
<b>Eye contact</b>	Not expected to cause eye irritation.
<b>Skin contact</b>	Non-irritating during normal use. Prolonged or repeated contact may dry skin and cause irritation.
<b>Ingestion</b>	No known hazard by swallowing. May cause gastrointestinal discomfort if consumed in large amounts.

## Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

## Numerical measures of toxicity

### **Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	4.300,50 mg/kg
ATEmix (dermal)	2.979,50 mg/kg

**Unknown acute toxicity**

0 % of the mixture consists of ingredient(s) of unknown acute toxicity

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Dilithium azelate	> 300 mg/kg	> 2000 mg/kg	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met.
<b>Respiratory or skin sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>STOT - single exposure</b>	Based on available data, the classification criteria are not met.
<b>STOT - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.

**11.2. Information on other hazards*****11.2.1. Endocrine disrupting properties***

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

***11.2.2. Other information***

**Other adverse effects** No information available.

**SECTION 12: Ecological information****12.1. Toxicity**

<b>Ecotoxicity</b>	Not considered to be harmful to aquatic life.
<b>Unknown aquatic toxicity</b>	Contains 0 % of components with unknown hazards to the aquatic environment.

**12.2. Persistence and degradability**

**Persistence and degradability** Not readily biodegradable.

**12.3. Bioaccumulative potential**

**Bioaccumulation** There is no data for this product.

**Component Information**

Chemical name	Partition coefficient
Dilithium azelate	-3.3

**12.4. Mobility in soil**

**Mobility in soil** After release, adsorbs onto soil.

**Mobility** Insoluble in water.

### 12.5. Results of PBT and vPvB assessment

#### PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Dilithium azelate	The substance is not PBT / vPvB

### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

### 12.7. Other adverse effects

**Other adverse effects** No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products** Disposal should be in accordance with applicable regional, national and local laws and regulations. Dispose of contents/container to industrial incineration plant. Should not be released into the environment. Use personal protection recommended in Section 8.

**Contaminated packaging** Do not reuse empty containers.

**Waste codes / waste designations according to EWC / AVV** 13 08 99\*.

## SECTION 14: Transport information

### IMDG

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	None

### RID

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	None

### ADR

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	None



**IATA**

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	None

**ICAO (air)**

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable
14.6	Special Provisions	None

**14.7 Maritime transport in bulk according to IMO instruments**

No information available

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Water hazard class (WGK)** slightly hazardous to water (WGK 1)

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorisations and/or restrictions on use:**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

**Persistent Organic Pollutants**

Not applicable.

**Export Notification requirements**

Not applicable.

**Dangerous substance category per Seveso Directive (2012/18/EU)**

Non-controlled.

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable.

**International Inventories**

TSCA	Complies
DSL/NDL	Complies
EINECS/ELINCS	Complies
REACH	Complies
ENCS	-
IECSC	Complies
KECI	Complies
PICCS	Complies
AIIC	Complies
NZIoC	Complies

TSCI Complies

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**REACH** - Registration, Evaluation, Authorization, and Restriction of Chemicals Regulation (EC 1907/2006)  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AIIC** - Australian Inventory of Industrial Chemicals  
**NZIoC** - New Zealand Inventory of Chemicals  
**TSCI** - Taiwan Chemical Substance Inventory

**15.2. Chemical safety assessment**

Chemical Safety Report No information available

**SECTION 16: Other information**

**Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed

**Key or legend to abbreviations and acronyms used in the safety data sheet**

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ATE - Acute Toxicity Estimate  
 CAS - Chemical Abstracts Service  
 CLP - EU Regulation on the Classification, Labelling and Packaging of Substances and Mixture  
 EC - European Commission  
 EUH - European Hazard statement  
 GHS - Globally Harmonized System of Classification and Labelling  
 IATA - International Air Transport Association  
 IMDG - International Maritime Dangerous Goods  
 PBT - Persistent, Bio-accumulative and Toxic  
 REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals  
 RID - European Agreements Concerning the International Carriage of Dangerous Goods by Rail  
 STOT - Specific Target Organ Toxicity  
 VOC - Volatile Organic Compounds  
 vPvB - Very Persistent, Very Bio-accumulative

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation

**Classification procedure**

Calculation method  
 Bridging principle "Substantially similar mixtures"  
 Expert judgment and weight of evidence determination

**Key literature references and sources for data used to compile the SDS**

Acute Exposure Guideline Level(s) (AEGL(s))  
 Agency for Toxic Substances and Disease Registry (ATSDR)  
 Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 Environmental Protection Agency  
 European Chemicals Agency  
 European Food Safety Authority (EFSA)  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

NIOSH (National Institute for Occupational Safety and Health)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

U.S. Environmental Protection Agency ChemView Database

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

World Health Organization

**Revision date** 27-Mar-2024

**Revision Note** SDS sections updated, 2, 8, 9, 10, 11, 12.

**Training Advice** None in particular. The information required is contained in this Safety Data Sheet.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text.

**End of Safety Data Sheet**