



# Lithium Grease EP-0

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue:

Revision date: 22/12/2011

version: 15.0

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

#### 1.1. Product identifier

Product form : Mixture  
 Product name : Lithium Grease EP-0  
 Product code : 64000A  
 Type of product : Paste

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
 Function or use category : Lubricants and additives

##### 1.2.2. Uses advised against

No additional information available

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

MPM International Oil Company  
 Cyclotronweg 1  
 2629 HN Delft - Nederland  
 T +31 (0)15 2514030 - F +31 (0)15 2514031  
[info@mpmoil.nl](mailto:info@mpmoil.nl) - [www.mpmoil.nl](http://www.mpmoil.nl)

#### 1.4. Emergency telephone number

Emergency number : +31 (0)15 2514030 (08.00 - 17.00)

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Centre Hospitalier Universitaire de Constantine	Avonley Road SE14 5ER London	0870 243 2241

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Not classified

#### 2.2. Label elements

According to EC directives or the corresponding national regulations there is no labelling obligation for this product.

#### 2.3. Other hazards

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Zinc Alkyldithiophosphate	(CAS No) 68649-42-3 (EC no) 272-028-3 (REACH-no) 01-2119493635-27	1 - 2,5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Benzotriazole derivatives		< 1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411

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N-Phenyl benzolamine derivatives		< 1	Aquatic Chronic 2, H411
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### Specific concentration limits:

Name	Product identifier	Specific concentration limits
Zinc Alkyldithiophosphate	(CAS No) 68649-42-3 (EC no) 272-028-3 (REACH-no) 01-2119493635-27	( 5 =<C < 10) Eye Irrit. 2, H319 (C >= 10) Eye Dam. 1, H318

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General	: In all cases of doubt, or when symptoms persist, seek medical attention.
After inhalation	: No special measures are necessary.
After skin contact	: No special measures are necessary.
After eye contact	: No special measures are necessary.
After ingestion	: No special measures are necessary.

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

No additional information available

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

None.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: powder, alcohol-resistant foam, water spray, carbon dioxide.
Unsuitable extinguishing media	: High power water jet.

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

Fire hazard	: On heating/burning: release of (highly) toxic gases/vapours e.g.: carbon monoxide - carbon dioxide.
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### 5.3. Advice for firefighters

Precautionary measures fire	: Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Self-contained breathing apparatus with an air line.
Other information	: Use water spray/stream to protect personnel and to cool endangered containers.

## SECTION 6: Accidental release measures

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

General measures	: May be dangerously slippery if spilled.
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#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

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

Methods for cleaning up	: Large spills: scoop solid spill into closing containers. Clean up with absorbent material (for example sand, sawdust, neutral absorbent granule, silica gel).
Other information	: Can be slippery on hard, smooth walking area.

### 6.4. Reference to other sections

Information on personal protective equipment - see Chapter 8. Information on safe handling - see Section 7.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Avoid contact with skin and eyes. Never use pressure to empty container.
Hygiene measures	: When using do not eat, drink or smoke. Wash hands before breaks and at the end of work.

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

Technical measures	: Store in a well-ventilated place. Keep container tightly closed.
Storage conditions	: Keep the packing dry and well sealed to prevent contamination and absorption of dampness.
Incompatible products	: alkali. Strong acid. Oxidizing agents.

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### 7.3. Specific end use(s)

None.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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##### DNEL/DMEL (Workers)

Acute - systemic effects, dermal	So far, no national limits set
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Additional information : To date, no national limit values exist.

### 8.2. Exposure controls

Technical measures : Does not require any specific or particular technical measures.

Hand protection : None under normal use

Eye protection : Safety glasses

Skin and body protection : Overall

Respiratory protection : No personal breathing protective equipment is normally required

Environmental exposure controls : Dispose of in accordance with relevant local regulations.

## SECTION 9: Physical and chemical properties

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

Physical state : Solid

Appearance : Paste.

Colour : dark brown.

Odour : characteristic.

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : > 300 °C

Flash point : > 200 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : ca. 1010 g/l

Solubility : Water: insoluble

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

No information available.

### 10.3. Possibility of hazardous reactions

No information available.

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### 10.4. Conditions to avoid

No information available.

### 10.5. Incompatible materials

Exothermic reactions with: Oxidizing substances. Strong acid. strong alkalis.

### 10.6. Hazardous decomposition products

On burning: release of harmful/irritant gases/vapours e.g.: carbon monoxide - carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

#### Zinc Alkyldithiophosphate (68649-42-3)

LD50 oral rat	2230 mg/kg
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LD50 dermal rat	> 2000 mg/kg
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Skin corrosion/irritation : Not classified  
May cause an allergic skin reaction

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : According to the Preparation Directive 1999/45/EC this product is classified as not dangerous. This mixture is classified as not hazardous according to Regulation (EC) 1272/2008 [GHS].

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - water : No harm to water organisms up to the tested concentration.

#### Zinc Alkyldithiophosphate (68649-42-3)

LC50 fish 1	1 - 5 mg/l @ 96h
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EC50 Daphnia 1	1 - 1,5 @ 48 h
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EC50 other aquatic organisms 2	1 - 5 mg/l Algae @ 96 h
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NOEC (acute)	1 mg/l @ 96 h ( Fish )
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NOEC chronic algae	1 mg/l @ 96 h
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### 12.2. Persistence and degradability

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Persistence and degradability	No information available.
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#### Zinc Alkyldithiophosphate (68649-42-3)

Persistence and degradability	No data available.
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### 12.3. Bioaccumulative potential

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Bioaccumulative potential	No additional information available.
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#### Zinc Alkyldithiophosphate (68649-42-3)

Bioaccumulative potential	not determined.
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### 12.4. Mobility in soil

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Soil	No data available.
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#### Zinc Alkyldithiophosphate (68649-42-3)

Soil	No data available.
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### 12.5. Results of PBT and vPvB assessment

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PBT: not relevant – no registration required
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vPvB: not relevant – no registration required

#### 12.6. Other adverse effects

Other adverse effects : The evaluation was carried out according to the calculation method of the Preparations Directive.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Do not dispose of with domestic waste.  
Waste disposal recommendations : Remove to an authorized waste treatment plant.  
Waste materials : Waste disposal according to official state regulations. Contaminated packing must be completely emptied and can be re-used following appropriate cleaning. Packing which cannot be properly cleaned must be thrown away. Handle contaminated packaging in the same way as the substance itself.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable

Proper Shipping Name (IMDG) : Not applicable

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : Not applicable

#### IMDG

Transport hazard class(es) (IMDG) : Not applicable

### 14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

No data available

#### - Transport by sea

No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

No additional information available

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### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out

## SECTION 16: Other information

Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

SDS MPM REACH

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*