



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Hightemp EK 2

Print date: 08.05.2015

Product code: 717236

Page 1 of 7

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

##### 1.1. Product identifier

ADDINOL Hightemp EK 2

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

###### Use of the substance/mixture

Lubricant and additive.

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

Company name:	ADDINOL Lube Oil GmbH	
	Gebäude 4609	
Street:	Am Haupttor	
Place:	D-06237 Leuna	
Telephone:	+49 (0) 3461 845-201	Telefax: +49 (0) 3461 845-561
e-mail:	info@addinol.de	
Contact person:	Application Technology	
Internet:	www.addinol.de	
Responsible Department:	ADDINOL Application Technology	

##### 1.4. Emergency telephone number:

+49 (0) 3461 845-201 - This number is serviced during office hours.

#### SECTION 2: Hazards identification

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

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

Hazard categories:

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Causes serious eye irritation.

##### 2.2. Label elements

Signal word:	Warning
Pictograms:	GHS07



###### Hazard statements

H319	Causes serious eye irritation.
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###### Precautionary statements

P264	Wash hands thoroughly after handling.
P280	Wear suitable gloves and eye/face protection.
P337+P313	If eye irritation persists: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

###### Additional advice on labelling

Product is classified and labelled in accordance with EC regulations or the corresponding national laws.

##### 2.3. Other hazards

If handled with proper care and at intended use, the product does not cause any harmful effects acc. to



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Hightemp EK 2

Print date: 08.05.2015

Product code: 717236

Page 2 of 7

our experiences and available information.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
224-235-5	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	< 2,5 %
4259-15-8	Xi - Irritant, N - Dangerous for the environment R41-51-53	
	Eye Dam. 1, Aquatic Chronic 2; H318 H411	
01-2119493635-27		
279-632-6	Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates	< 1 %
80939-62-4	Xi - Irritant, N - Dangerous for the environment R36/38-51-53	
	Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 2; H315 H319 H411	

Full text of R-, H- and EUH-phrases: see section 16.

#### Further Information

DMSO-Extrakt < 3 %, IP 346.

Concentration of PCBs < 1mg/kg.

Classification system: The classification corresponds to the current EC lists and is completed by information from specialist literature and company information.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Self-protection of the first aider. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

#### After inhalation

Provide fresh air. In case of persistent complaints seek medical advice.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

#### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting.

Rinse mouth thoroughly with water. Call a physician immediately.

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

No information available.

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

Treat symptomatically.

## SECTION 5: Firefighting measures



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Hightemp EK 2

Print date: 08.05.2015

Product code: 717236

Page 3 of 7

#### 5.1. Extinguishing media

##### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. Sand.

##### **Unsuitable extinguishing media**

Water.

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

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Sulfur oxides. carbon black.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### **Additional information**

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray/stream to protect personnel and to cool endangered containers. In case of fire and/or explosion do not breathe fumes. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

### SECTION 6: Accidental release measures

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

High slip hazard because of leaking or spilled product. Avoid contact with skin, eye and clothing.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

Take up mechanically. Dispose of waste according to applicable legislation. Clean contaminated objects and areas thoroughly observing environmental regulations.

#### 6.4. Reference to other sections

Refer to the provisions listed in Sections 8, 12 and 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### **Advice on safe handling**

Avoid contact with skin, eye and clothing.

##### **Advice on protection against fire and explosion**

Keep away from sources of ignition. - No smoking.

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

##### **Requirements for storage rooms and vessels**

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

##### **Advice on storage compatibility**

Keep away from food, drink and animal feedingstuffs.

Keep away from: Oxidizing agents.

##### **Further information on storage conditions**

Protect against: UV-radiation/sunlight. frost.

Recommended storage temperature: 10 - 30°C

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

Further information: see technical data sheet.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Hightemp EK 2

Print date: 08.05.2015

Product code: 717236

Page 4 of 7

#### Additional advice on limit values

The product does not contain any relevant quantities of substances with legally established exposure limitation.

#### 8.2. Exposure controls



#### Protective and hygiene measures

Wash hands before breaks and after work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not eat, drink, smoke or sneeze at the workplace.

#### Eye/face protection

Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

#### Hand protection

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): DIN EN 374

Duration of wearing with permanent contact: 480 min

Suitable material: NBR (Nitrile rubber).

Thickness of glove material: 0.7 mm.

Wearing time with occasional contact (splashes): 30 min

Suitable material: NBR (Nitrile rubber).

Thickness of glove material: 0.4 mm

Protect skin by using skin protective cream.

#### Skin protection

Wear suitable protective clothing. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

#### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

## SECTION 9: Physical and chemical properties

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

Physical state:	Paste
Colour:	yellow
Odour:	characteristic

#### Test method

#### Changes in the physical state

Melting point:	> 260 °C
Initial boiling point and boiling range:	> 250 °C
Flash point:	> 200 °C DIN EN ISO 2592

#### Explosive properties

not Explosive.

#### Auto-ignition temperature

Solid: incapable of spontaneous heating.

Density (at 20 °C): 0,94 g/cm<sup>3</sup> DIN 51757

Water solubility: insoluble



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Hightemp EK 2

Print date: 08.05.2015

Product code: 717236

Page 5 of 7

Viscosity / kinematic:  
(at 40 °C)

170 mm<sup>2</sup>/s DIN 51562 - Base oil

#### 9.2. Other information

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable with proper care and handling.

#### 10.2. Chemical stability

The product is chemically stable when handled and stored under normal conditions.

#### 10.3. Possibility of hazardous reactions

No decomposition if used as intended.

#### 10.4. Conditions to avoid

Refer to chapter 7 No further action is necessary.

Do not overheat to avoid decomposition by heat.

#### 10.5. Incompatible materials

Reacts with : Oxidizing agents, strong.

#### 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Sulfur oxides. carbon black.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity

No data available

Mixture not tested.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
4259-15-8	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)				
	oral	LD50	3100 mg/kg	Rat	
	dermal	LD50	5000 mg/kg	Rabbit	
80939-62-4	Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates				
	oral	LD50	>2000 mg/kg	Rat	

##### Irritation and corrosivity

Irritant effect on the eye: Irritant.

Irritant effect on the skin: Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

##### Sensitising effects

Evaluation: no danger of sensitization.

##### Severe effects after repeated or prolonged exposure

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

##### Carcinogenic/mutagenic/toxic effects for reproduction

No data available

##### Specific effects in experiment on an animal

No data available



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Hightemp EK 2

Print date: 08.05.2015

Product code: 717236

Page 6 of 7

#### Further information

If handled with proper care and at intended use, the product does not cause any harmful effects acc. to our experiences and available information.

## SECTION 12: Ecological information

### 12.1. Toxicity

No data available

Mixture not tested.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source
4259-15-8	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)					
	Acute fish toxicity	LC50	1 - 10 mg/l	96 h	Carassius auratus (goldfish)	
	Acute algae toxicity	ErC50	240 mg/l	96 h		
80939-62-4	Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates					
	Acute fish toxicity	LC50	5,5 mg/l	96 h		
	Acute algae toxicity	ErC50	> 10 mg/l	96 h		

### 12.2. Persistence and degradability

Not easily bio-degradable (according to OECD-criteria). Do not allow to enter into surface water or drains.

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

Due to its low solubility in water the product is almost completely mechanically separated in biological waste water treatment plants.

### 12.5. Results of PBT and vPvB assessment

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

### 12.6. Other adverse effects

No data available

#### Further information

Do not allow uncontrolled leakage of product into the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Must not be disposed of with domestic refuse. Do not allow to enter into surface water or drains.

#### Waste disposal number of waste from residues/unused products

120112 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; spent waxes and fats  
Classified as hazardous waste.

#### Contaminated packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Dispose of waste according to applicable legislation. Packing which cannot be properly cleaned must be thrown away.

## SECTION 14: Transport information



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Hightemp EK 2

Print date: 08.05.2015

Product code: 717236

Page 7 of 7

#### Land transport (ADR/RID)

**14.1. UN number:** -

#### Inland waterways transport (ADN)

**14.1. UN number:** -

#### Marine transport (IMDG)

**14.1. UN number:** -

#### Air transport (ICAO)

**14.1. UN number:** -

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

#### 14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

#### Other applicable information

No dangerous good in sense of these transport regulations.

### SECTION 15: Regulatory information

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

##### National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

#### 15.2. Chemical safety assessment

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

### SECTION 16: Other information

#### Relevant R-phrases (Number and full text)

- |       |   |
|-------|---|
| 36/38 | Irritating to eyes and skin.                                    |
| 41    | Risk of serious damage to eyes.                                 |
| 51    | Toxic to aquatic organisms.                                     |
| 53    | May cause long-term adverse effects in the aquatic environment. |

#### Relevant H- and EUH-phrases (Number and full text)

- |      |  |
|------|--|
| H315 | Causes skin irritation.                          |
| H318 | Causes serious eye damage.                       |
| H319 | Causes serious eye irritation.                   |
| H411 | Toxic to aquatic life with long lasting effects. |

#### Further Information

This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

These given data only refer to the named product. If the product is used together with other materials or in manufacturing processes the data might not be applicable any more. The data are based on today's state of our knowledge and experience. They are, however, no guarantee of any specific product properties and do not established any legally valid contractual relationship.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*