

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ADDINOL Cutting Oil K 16 S**

Revision date: 30.11.2018

Product code: 771001

Page 1 of 9

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

ADDINOL Cutting Oil K 16 S

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

Metal working fluids.

**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 845-0	Telefax: +49 (0) 3461 845-555
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 845 222 - Only available during office hours.

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P273 Avoid release to the environment.

P501 Dispose of contents/container to a waste disposal system.

**Additional advice on labelling**

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

**2.3. Other hazards**

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

Spilled product must not leak into the ground.

Do not allow uncontrolled leakage of product into the environment.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Cutting Oil K 16 S

Revision date: 30.11.2018

Product code: 771001

Page 2 of 9

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
64742-65-0	Solvent, dewaxed heavy paraffinic petroleum			60 - 90 %
	265-169-7		01-2119471299-27	
	Asp. Tox. 1; H304			
4259-15-8	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)			< 1 %
	224-235-5		01-2119493635-27	
	Eye Dam. 1, Aquatic Chronic 2; H318 H411			
68937-41-7	Triaryl phosphate isopropylated			< 1 %
	273-066-3			
	Repr. 2, STOT RE 2, Aquatic Chronic 2; H361fd H373 H411			
128-37-0	2,6-Di-tert-butyl-4-methylphenol			< 0,50 %
	204-881-4			
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			

Full text of H and EUH statements: see section 16.

#### Further Information

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

Move victim to fresh air. Put victim at rest and keep warm. Seek medical attention if problems persist.

##### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, seek medical treatment.

##### 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

First Aid, decontamination, treatment of symptoms.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Cutting Oil K 16 S

Revision date: 30.11.2018

Product code: 771001

Page 3 of 9

#### **Suitable extinguishing media**

Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>). Water spray.

#### **Unsuitable extinguishing media**

High power water jet.

#### **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>). 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. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Avoid contact with skin, eye and clothing.

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Prevent spread over a wide area (e.g. by containment or oil barriers).

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

#### **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**

Work in well-ventilated zones or use proper respiratory protection. Avoid oil mist. If handled uncovered, arrangements with local exhaust ventilation have to be used. 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. Keep container tightly closed in a cool place.

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

Keep away from food, drink and animal feedingstuffs.

Keep away from: Oxidizing agents, strong.

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

Protect against: UV-radiation/sunlight/frost.

Recommended storage temperature: 5 - 40°C

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

Further information: see technical data sheet.

### **SECTION 8: Exposure controls/personal protection**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Cutting Oil K 16 S

Revision date: 30.11.2018

Product code: 771001

Page 4 of 9

#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
128-37-0	2,6-Di-tert-butyl-p-cresol	-	10		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

##### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
128-37-0	2,6-Di-tert-butyl-4-methylphenol			
Worker DNEL, long-term		dermal	systemic	8,3 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	5,8 mg/m <sup>3</sup>

##### PNEC values

CAS No	Substance	Value
128-37-0	2,6-Di-tert-butyl-4-methylphenol	
Environmental compartment		
Freshwater		0,004 mg/l
Marine water		0,0004 mg/l
Freshwater sediment		1,29 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		1,04 mg/kg

##### Additional advice on limit values

Recommended limit value for cooling lubricants (steam and aerosol)  
MAK: 10 mg/m<sup>3</sup>

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

#### 8.2. Exposure controls



##### Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

##### 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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Cutting Oil K 16 S

Revision date: 30.11.2018

Product code: 771001

Page 5 of 9

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

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Breathing protection with filter against organic gases and vapours type A - boiling point > 65°C: A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm

### SECTION 9: Physical and chemical properties

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

Physical state:	liquid
Colour:	brown
Odour:	like: mineral oil.

#### Test method

pH-Value:	not determined
-----------	----------------

#### Changes in the physical state

Melting point:	No data available
Initial boiling point and boiling range:	> 200 °C
Pour point:	-12 °C ISO 3016
Flash point:	196 °C DIN EN ISO 2592

#### Flammability

Solid:	No data available
Gas:	No data available

#### Explosive properties

not Explosive.

Lower explosion limits:	0,6 vol. %
Upper explosion limits:	6,5 vol. %
Ignition temperature:	240 °C

#### Auto-ignition temperature

Solid:	No data available
Gas:	No data available

Decomposition temperature:	No data available
----------------------------	-------------------

#### Oxidizing properties

Not oxidising.

Vapour pressure:	No data available
------------------	-------------------

Density (at 20 °C):	0,875 g/cm <sup>3</sup> DIN EN ISO 12185
---------------------	--

Water solubility:	insoluble
-------------------	-----------

#### Solubility in other solvents

No data available

Partition coefficient:	No data available
------------------------	-------------------

Viscosity / kinematic: (at 40 °C)	22 mm <sup>2</sup> /s DIN EN ISO 3104
--------------------------------------	---------------------------------------

Vapour density:	No data available
-----------------	-------------------

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Cutting Oil K 16 S

Revision date: 30.11.2018

Product code: 771001

Page 6 of 9

Evaporation rate:

No data available

#### **9.2. Other information**

No data available

### SECTION 10: Stability and reactivity

#### **10.1. Reactivity**

The product is stable under storage at normal ambient temperatures.

#### **10.2. Chemical stability**

The mixture is chemically stable under recommended conditions of storage, use and temperature.

#### **10.3. Possibility of hazardous reactions**

No known hazardous reactions.

#### **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>). carbon black.

### SECTION 11: Toxicological information

#### **11.1. Information on toxicological effects**

##### **Acute toxicity**

Mixture not tested.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-65-0	Solvent, dewaxed heavy paraffinic petroleum				
	oral	LD50 > 5000 mg/kg	Rat		
	dermal	LD50 > 5000 mg/kg	Rabbit		
4259-15-8	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)				
	oral	LD50 3100 mg/kg	Rat		
	dermal	LD50 5000 mg/kg	Rabbit		

##### **Irritation and corrosivity**

Irritant effect on the eye: mild irritant.

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

##### **Sensitising effects**

Evaluation: no danger of sensitization.

##### **STOT-repeated exposure**

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

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

No data available

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Cutting Oil K 16 S

Revision date: 30.11.2018

Product code: 771001

Page 7 of 9

## SECTION 12: Ecological information

### 12.1. Toxicity

No data available

Mixture not tested.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
64742-65-0	Solvent, dewaxed heavy paraffinic petroleum					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 > 1000 mg/l	48 h	Daphnia magna		
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			
128-37-0	2,6-Di-tert-butyl-4-methylphenol					
	Acute fish toxicity	LC50 > 0,57 mg/l	96 h	Brachydanio rerio (zebra-fish)		
	Acute algae toxicity	ErC50 > 0,42 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 > 0,17 mg/l	48 h	Daphnia magna		

### 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

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64742-65-0	Solvent, dewaxed heavy paraffinic petroleum	> 3

### 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.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Cutting Oil K 16 S

Revision date: 30.11.2018

Product code: 771001

Page 8 of 9

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

120107 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; mineral-based machining oils free of halogens (except emulsions and solutions); 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

#### Land transport (ADR/RID)

14.1. UN number: -

14.2. UN proper shipping name: -

14.3. Transport hazard class(es): -

14.4. Packing group: -

#### Inland waterways transport (ADN)

14.1. UN number: -

14.2. UN proper shipping name: -

14.3. Transport hazard class(es): -

14.4. Packing group: -

#### Marine transport (IMDG)

14.1. UN number: -

14.2. UN proper shipping name: -

14.3. Transport hazard class(es): -

14.4. Packing group: -

#### Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: -

14.2. UN proper shipping name: -

14.3. Transport hazard class(es): -

14.4. Packing group: -

#### 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 Marpol 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

##### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 28: Solvent, dewaxed heavy paraffinic petroleum

##### National regulatory information



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Cutting Oil K 16 S

Revision date: 30.11.2018

Product code: 771001

Page 9 of 9

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**

#### **Changes**

This data sheet contains changes from the previous version in section(s): 2,3,4,5,6,7,8,9,10,11,12,13,14,15.

#### **Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

Classification	Classification procedure
Aquatic Chronic 3; H412	Calculation method

#### **Relevant H and EUH statements (number and full text)**

H304	May be fatal if swallowed and enters airways.
H318	Causes serious eye damage.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful 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.)*