



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Special Oil XH 220 A

Print date: 07.04.2015

Product code: 766010

Page 1 of 8

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

##### 1.1. Product identifier

ADDINOL Special Oil XH 220 A

##### 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 Directive 67/548/EEC or 1999/45/EC

R phrases:  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

Hazard categories:  
Hazardous to the aquatic environment: Aquatic Chronic 3  
Hazard Statements:  
Harmful to aquatic life with long lasting effects.

##### 2.2. Label elements

###### 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 Special Oil XH 220 A

Print date: 07.04.2015

Product code: 766010

Page 2 of 8

#### 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		
273-066-3	Triaryl phosphate isopropylated	< 1,70 %
68937-41-7	N - Dangerous for the environment R51-53	
	Aquatic Chronic 2; H411	
204-112-2	Triphenyl phosphate	< 1,25 %
115-86-6	N - Dangerous for the environment R50-53	
	Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1 (M-Factor = 1); H400 H410	
279-632-6	Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates	< 0,13 %
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

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 Special Oil XH 220 A

Print date: 07.04.2015

Product code: 766010

Page 3 of 8

#### Suitable extinguishing media

Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>). Atomized water.

#### 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>). Sulfur oxides. Phosphorus oxides. 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 jet 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.

### 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 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

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. Reducing agent. Peroxides.

##### Further information on storage conditions

Recommended storage temperature: 10 - 30°C Recommended storage temperature: 10 - 30°C

Protect against: heat. UV-radiation/sunlight. frost.

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

Further information: see technical data sheet.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Special Oil XH 220 A

Print date: 07.04.2015

Product code: 766010

Page 4 of 8

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
115-86-6	Triphenyl phosphate	-	3		TWA (8 h)	WEL
		-	6		STEL (15 min)	WEL

#### Additional advice on limit values

Recommended limit value for oil mist

TWA: 5 mg/m<sup>3</sup>

STEL: 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 exhaustion 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

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



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Special Oil XH 220 A

Print date: 07.04.2015

Product code: 766010

Page 5 of 8

## SECTION 9: Physical and chemical properties

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

Physical state: liquid  
 Colour: yellow  
 Odour: characteristic

#### Test method

#### Changes in the physical state

Initial boiling point and boiling range: not determined  
 Flash point: > 285 °C DIN EN ISO 2592  
 Ignition temperature: not determined  
 Density (at 15 °C): 0,940 g/cm<sup>3</sup> DIN 51757  
 Water solubility: virtually insoluble  
 Viscosity / kinematic:  
 (at 40 °C) 225 mm<sup>2</sup>/s ASTM D 7042

## 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. Reducing agent. Peroxides.

### 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Sulfur oxides. Phosphorus oxides. Nitrogen oxides (NO<sub>x</sub>). 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
80939-62-4	Amines, C11-14-branched alkyl, monoheptyl and diheptyl phosphates				
	oral	LD50	>2000 mg/kg	Rat	

#### Irritation and corrosivity



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Special Oil XH 220 A

Print date: 07.04.2015

Product code: 766010

Page 6 of 8

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.

#### 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

## 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
80939-62-4	Amines, C11-14-branched alkyl, monohexyl and dihexyl 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

130206 OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19); waste engine, gear and lubricating oils; synthetic engine, gear and lubricating oils  
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.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Special Oil XH 220 A

Print date: 07.04.2015

Product code: 766010

Page 7 of 8

#### SECTION 14: Transport information

##### 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): 2 - 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.                                    |
| 50    | Very toxic to aquatic organisms.                                |
| 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.                               |
| H319 | Causes serious eye irritation.                        |
| 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.



## Safety Data Sheet



according to Regulation (EC) No 1907/2006

### ADDINOL Special Oil XH 220 A

Print date: 07.04.2015

Product code: 766010

Page 8 of 8

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.)*