



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Gear Oil 680 F

Print date: 08.10.2014

Product code: 741125

Page 1 of 7

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

##### 1.1. Product identifier

ADDINOL Gear Oil 680 F

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

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

Gearbox oil.

##### 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

This mixture is classified as not hazardous according to Regulation (EC) 1272/2008 [GHS].

The preparation is not dangerous in the sense of Directive 1999/45/EC.

##### 2.2. Label elements

###### Special labelling of certain mixtures

EUH210      Safety data sheet available on request.

##### 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

###### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
	Petroleum destillates	< = 1 %
confident	Xn - Harmful, N - Dangerous for the environment R51-53-65-66	
	Asp. Tox. 1, Aquatic Chronic 2; H304 H411	

Full text of R and H phrases: see Section 16.

###### Further Information

DMSO-Extrakt < 3 %, IP 346.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Gear Oil 680 F

Print date: 08.10.2014

Product code: 741125

Page 2 of 7

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. Immediately get medical attention.

##### 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

##### 5.1. Extinguishing media

###### 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

Can be released in case of fire: 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

Extinguishing materials should be selected according to the surrounding area. 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 empty into drains or the aquatic environment.

#### 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 respiratory protection when in the presence of vapour, dust, and aerosols. Avoid contact with skin, eye and



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Gear Oil 680 F

Print date: 08.10.2014

Product code: 741125

Page 3 of 7

clothing.

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

Do not empty into drains or the aquatic environment. In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed. Prevent spreading over great surfaces (e.g. by damming or installing oil booms).

#### **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 assimilated material according to 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. In case of open handling equipment with built-in suction must 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 dampness.

#### **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

## SECTION 8: Exposure controls/personal protection

### **8.1. Control parameters**

#### **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 for sufficient ventilation and punctiform suction at critical points.

#### **Protective and hygiene measures**

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



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Gear Oil 680 F

Print date: 08.10.2014

Product code: 741125

Page 4 of 7

#### 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.

Duration of wearing 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 suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn.

## 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

#### Changes in the physical state

Initial boiling point and boiling range:	No data available
Flash point:	264 °C DIN ISO 2592
Ignition temperature:	No data available
Density (at 15 °C):	0,908 g/cm <sup>3</sup> DIN 51757
Water solubility:	virtually insoluble
Viscosity / kinematic: (at 40 °C)	680 mm <sup>2</sup> /s DIN 51562

## 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.

### 10.4. 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.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Gear Oil 680 F

Print date: 08.10.2014

Product code: 741125

Page 5 of 7

#### 10.6. Hazardous decomposition products

Can be released in case of fire: 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.

##### Irritation and corrosivity

Irritant effect on the eye: Not an 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.

#### 12.2. Persistence and degradability

Not easily bio-degradable (according to OECD-criteria). Do not empty into drains or the aquatic environment.

#### 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 empty into drains or the aquatic environment.

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



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Gear Oil 680 F

Print date: 08.10.2014

Product code: 741125

Page 6 of 7

130205 OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils  
Classified as hazardous waste.

#### Contaminated packaging

Contaminated packing must be completely emptied and can be re-used following appropriate cleaning. Waste disposal according to official state regulations. Packing which cannot be properly cleaned must be thrown away.

### 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

Not a hazardous material with respect to these transportation 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

#### Full text of R phrases referred to under Sections 2 and 3

- 51 Toxic to aquatic organisms.
- 53 May cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.

#### Full text of H statements referred to under Sections 2 and 3

- H304 May be fatal if swallowed and enters airways.
- H411 Toxic to aquatic life with long lasting effects.

#### Further Information

This mixture is classified as not hazardous according to Regulation (EC) 1272/2008 [GHS].

These given data only refer to the named product. If the product is used together with other materials



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Gear Oil 680 F

Print date: 08.10.2014

Product code: 741125

Page 7 of 7

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.)*