



Safety Data Sheet



according to Regulation (EC) No 1907/2006

ADDINOL Gear Oil 460 F

Print date: 08.10.2014

Product code: 741124

Page 1 of 7

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

1.1. Product identifier

ADDINOL Gear Oil 460 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 460 F

Print date: 08.10.2014

Product code: 741124

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 (CO₂). 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 (CO₂). Sulfur oxides. Phosphorus oxides. Nitrogen oxides (NO_x). 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 460 F

Print date: 08.10.2014

Product code: 741124

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

7.3. Specific end use(s)

Further information: refer to Technical Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

Recommended limit value for oil mist
TWA: 5 mg/m³
STEL: 10 mg/m³

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.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Gear Oil 460 F

Print date: 08.10.2014

Product code: 741124

Page 4 of 7

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.

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. 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

Changes in the physical state

Initial boiling point and boiling range:	No data available
Flash point:	> 250 °C DIN EN ISO 2592
Ignition temperature:	No data available
Density (at 15 °C):	0,905 g/cm ³ DIN 51757
Water solubility:	virtually insoluble
Viscosity / kinematic: (at 40 °C)	460 mm ² /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.

10.3. Possibility of hazardous reactions

No decomposition if used as intended.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Gear Oil 460 F

Print date: 08.10.2014

Product code: 741124

Page 5 of 7

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

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO₂). Sulfur oxides. Phosphorus oxides. Nitrogen oxides (NO_x). 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.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Gear Oil 460 F

Print date: 08.10.2014

Product code: 741124

Page 6 of 7

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

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. |



Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Gear Oil 460 F

Print date: 08.10.2014

Product code: 741124

Page 7 of 7

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 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.)