




**ADDINOL**  
THE ART OF OIL SINCE 1930

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Penta-Cool NM 80 MIN

Print date: 18.05.2015

Product code: 770100

Page 2 of 7

#### 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. Take off immediately all 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

##### 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>). 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.

#### 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



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Penta-Cool NM 80 MIN

Print date: 18.05.2015

Product code: 770100

Page 3 of 7

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.

#### **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

### **8.1. Control parameters**

#### **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.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Penta-Cool NM 80 MIN

Print date: 18.05.2015

Product code: 770100

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. Breakthrough times and swelling properties of the material must be taken into consideration.

Duration of wearing with permanent contact: 480 min

Suitable material: NBR (Nitrile rubber). CR (polychloroprenes, Chloroprene rubber).

Thickness of glove material: 0.7 mm.

Wearing time with occasional contact (splashes): 30 min

Suitable material: NBR (Nitrile rubber). CR (polychloroprenes, Chloroprene 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:	yellow
Odour:	characteristic

#### Test method

#### Changes in the physical state

Initial boiling point and boiling range:	> 200 °C
Pour point:	-40 °C ASTM D 7346
Flash point:	> 300 °C DIN EN ISO 2592
Ignition temperature:	> 300 °C DIN 51794
Density (at 20 °C):	0,942 g/cm <sup>3</sup> DIN 51757
Water solubility:	virtually insoluble
Viscosity / kinematic: (at 40 °C)	80 mm <sup>2</sup> /s DIN EN ISO 3104

## 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.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Penta-Cool NM 80 MIN

Print date: 18.05.2015

Product code: 770100

Page 5 of 7

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**

No data available

Mixture not tested.

CAS No	Chemical name				Exposure routes	Method	Dose	Species	Source
96690-34-5	amine neutralised phosphoric acid ester				oral	ATE	500 mg/kg		

#### **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.

#### **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 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



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Penta-Cool NM 80 MIN

Print date: 18.05.2015

Product code: 770100

Page 6 of 7

#### 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

120110 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; synthetic machining 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.

### 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): 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)

22 Harmful if swallowed.



## Safety Data Sheet

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### ADDINOL Penta-Cool NM 80 MIN

Print date: 18.05.2015

Product code: 770100

Page 7 of 7

- |       |   |
|-------|---|
| 36/38 | Irritating to eyes and skin.                                    |
| 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)

- |        |  |
|--------|--|
| H302   | Harmful if swallowed.                            |
| H315   | Causes skin irritation.                          |
| H319   | Causes serious eye irritation.                   |
| H411   | Toxic to aquatic life with long lasting effects. |
| EUH210 | Safety data sheet available on request.          |

#### 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.

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