



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## ADDINOL Penta-Cool NM 10

Print date: 22.06.2015

Product code: 770052

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

#### 1.1. Product identifier

ADDINOL Penta-Cool NM 10

#### 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) 3461-845201 - This number is serviced during office hours.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

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

Hazard categories:

Aspiration hazard: Asp. Tox. 1

Hazardous to the aquatic environment: Aquatic Chronic 4

Hazard Statements:

May be fatal if swallowed and enters airways.

May cause long lasting harmful effects to aquatic life.

#### 2.2. Label elements

##### Hazardous components which must be listed on the label

Hydrocarbons, C11-C12, isoalkanes, &lt; 2% aromatics

Hydrocarbons, C11-C13, isoalkanes, &lt; 2% aromatics

Hydrocarbons, C11-C14, isoalkanes, cyclics, &lt; 2% aromatics

Signal word: Danger

Pictograms: GHS08



##### Hazard statements

H304 May be fatal if swallowed and enters airways.

H413 May cause long lasting harmful effects to aquatic life.

##### Precautionary statements

P273 Avoid release to the environment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.



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- P331 Do NOT induce vomiting.  
P405 Store locked up.  
P501 Dispose of contents/container to a waste disposal system.

#### Special labelling of certain mixtures

- EUH066 Repeated exposure may cause skin dryness or cracking.

#### Additional advice on labelling

Product is classified and labelled in accordance with EC regulations or the corresponding national laws.

#### 2.3. Other hazards

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).

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

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

##### 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         |   |          |
| 918-167-1        | Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics               | < 65 %   |
|                  | Xn - Harmful R53-65-66  |          |
|                  | Asp. Tox. 1, Aquatic Chronic 4; H304 H413 EUH066                |          |
| 01-2119472146-39 |   |          |
| 920-901-0        | Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics               | < 30 %   |
|                  | Xn - Harmful R65-66   |          |
|                  | Asp. Tox. 1; H304 EUH066  |          |
| 01-2119456810-10 |   |          |
| 927-285-2        | Hydrocarbons, C11-C14, isoalkanes, cyclics, < 2% aromatics      | < 30 %   |
|                  | Xn - Harmful R65-66   |          |
|                  | Asp. Tox. 1; H304 EUH066  |          |
| 01-2119480162-45 |   |          |

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.



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#### 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. Rub greasy ointment into the skin. 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.

Caution if victim vomits: Risk of aspiration!

Rinse mouth thoroughly with water. Medical treatment necessary.

##### 4.2. Most important symptoms and effects, both acute and delayed

after ingestion: Coughing. shortage of breath.

##### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Where appropriate artificial ventilation. Regulation of the blood circulation, possible shock treatment. Subsequent observance for pneumonia and lung oedema.

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

###### Suitable extinguishing media

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

###### 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.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

##### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Wear chemical resistant suit.

###### 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



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#### **6.1. Personal precautions, protective equipment and emergency procedures**

High slip hazard because of leaking or spilled product. Do not breathe gas/fumes/vapour/spray. Remove all sources of ignition. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothes. Wear personal protection equipment. Provide adequate ventilation. 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 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. Use only antistatically equipped (spark-free) tools. Avoid contact with skin, eye and clothing.

##### **Advice on protection against fire and explosion**

Take precautionary measures against static discharges. 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. Provide adequate ventilation as well as local exhaustion at critical locations. Take precautionary measures against static discharges.

##### **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: see technical data sheet.

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

#### **8.1. Control parameters**

##### **Additional advice on limit values**

Exposure limit values:  
de-aromatised hydrocarbon mixtures (group 1): 200 ml/m<sup>3</sup> (TRGS 900)

#### **8.2. Exposure controls**



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#### 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: 0.4 mm.

Wearing time with occasional contact (splashes): 30 min

Suitable material: NBR (Nitrile rubber).

Thickness of glove material: 0.2 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:         | colourless     |
| Odour:          | characteristic |

#### Test method

#### Changes in the physical state

|  |                         |                 |
|--|-------------------------|-----------------|
| Initial boiling point and boiling range: | 170 - 205 °C            | DIN EN ISO 3405 |
| Flash point:                             | 61 °C                   | DIN EN ISO 2719 |
| Ignition temperature:                    | > 200 °C                | DIN 51794       |
| Density (at 20 °C):                      | 0,765 g/cm <sup>3</sup> | DIN 51757       |
| Water solubility:                        | virtually insoluble     |                 |
| Viscosity / kinematic:<br>(at 25 °C)     | 1,9 mm <sup>2</sup> /s  | DIN 51562       |

## SECTION 10: Stability and reactivity



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#### **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**

This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).

Do not overheat to avoid decomposition by heat.

#### **10.5. Incompatible materials**

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**

##### **ATEmix tested**

|              | Dose          | Species | Source   |
|--------------|---------------|---------|----------|
| LD50, oral   | > 5.000 mg/kg | Rat     | OECD 401 |
| LD50, dermal | > 5.000 mg/kg | Rabbit  | OECD 402 |

##### **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 indications of human reproductive toxicity exist. No indications of human germ cell mutagenicity exist.

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

No data available

### SECTION 12: Ecological information

#### **12.1. Toxicity**

Preparation related information

Daphnia magna: EL0 1000 mg/L (48 h)

Pseudokirchneriella subcapitata: EL0 1000 mg/L (72 h)

Pseudokirchneriella subcapitata: NOELR 1000 mg/L (72 h)

Oncorhynchus mykiss (Rainbow trout): LL0 1000 mg/L (96 h)

The statement is derived from products of similar structure or composition.



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#### **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.

##### **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**

##### **EU regulatory information**



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2004/42/EC (VOC):

This chemical is a VOC according to 99/13/EC.

**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)**

- 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.

**Relevant H- and EUH-phrases (Number and full text)**

- H304 May be fatal if swallowed and enters airways.
- H413 May cause long lasting harmful effects to aquatic life.
- EUH066 Repeated exposure may cause skin dryness or cracking.

**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.)*