

**Safety Data Sheet****ADDINOL Hardening Oil 29**

Revision date: 20.03.2023

Product code: 770005

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**1. Identification****Product identifier**

ADDINOL Hardening Oil 29

**Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture

**Details of the supplier of the safety data sheet****Manufacturer**

Company name:	ADDINOL Lube Oil GmbH	
	Gebäude 4609	
Street:	Am Haupttor	
Place:	D-06237 Leuna	
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e-mail:	info@addinol.de	
Contact person:	Application Technology	
Internet:	www.addinol.de	
Responsible Department:	ADDINOL Application Technology	

**Supplier**

Company name:	ADDINOL Lube Oil GmbH
Street:	Am Haupttor, D - 06237 Leuna
Telephone:	+1 416-821-0398
e-mail:	enis.slimane@addinol.de

**Emergency telephone number:** +1 416-821-0398 available Mon - Fri, 8:00 am to 4:30 pm EST**2. Hazard identification****Classification of the substance or mixture****Regulation (EC) No 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

**Label elements****Additional advice on labelling**

According to EC directives or the corresponding national regulations the product does not have to be labelled.

**Other hazards**

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.  
Spilled product must not leak into the ground.  
Do not allow uncontrolled discharge of product into the environment.

**3. Composition/information on ingredients****Mixtures****Hazardous components**

none (according to Regulation (EC) No 1907/2006 (REACH))

**Further Information**

The product does not contain any dangerous substances with concentrations reaching or exceeding the limits acc. to 1272/2008 [GHS].

DMSO-Extrakt &lt; 3 %, IP 346.

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Classification system: The classification corresponds to the current CDN lists and is completed by information from specialist literature and company information.

### 4. First-aid measures

#### 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, consult a physician.

##### **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.

#### Most important symptoms and effects, whether acute or delayed

No information available.

#### Indication of immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

### 5. Fire-fighting measures

#### Extinguishing media

##### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>) Extinguishing powder Water spray jet Foam.

##### **Unsuitable extinguishing media**

Strong water jet

#### Specific hazards arising from the hazardous product

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO<sub>2</sub>) Nitrogen oxides (NO<sub>x</sub>). Sulphur oxides carbon black.

#### Special protective equipment and precautions for fire-fighters

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.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

##### **General advice**

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.

##### **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).

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### Methods and material for containment and cleaning up

#### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

### Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Section 12: Ecological Information (non-mandatory)

Disposal: see section 13

## 7. Handling and storage

### 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, eyes and clothes.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not eat, drink or smoke when using this product.

### 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.

#### Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Keep away from:

#### Further information on storage conditions

Protect against: UV-radiation/sunlight. Frost. Heat.

Recommended storage temperature: 5 - 40°C

### Specific end use(s)

Further information: see technical data sheet.

## 8. Exposure controls/Personal protection

### Control parameters

#### Additional advice on limit values

Recommended limit value for cooling lubricants (steam and aerosol)

MAK: 10

The product does not contain any relevant quantities of substances with legally established exposure limitation.

### Exposure controls



#### Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

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**Individual protection measures, such as personal protective equipment****Eye/face protection**

Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): EN 166

**Hand protection**

Tested protective gloves must be worn: German Industry Norms (DIN) / European Norms (EN): EN ISO 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. Respiratory protection with filter against organic gases and vapors type A - boiling point > 65 ° C: A1: <1000 ppm; A2: <5000 ppm; A3: <10,000 ppm.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	light yellow
Odour:	like: Mineral oil

	Test method
Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	> 300 °C
Flammability:	No data available
Lower explosive limits:	0,6 vol. %
Upper explosive limits:	6,5 vol. %
Flash point:	> 200 °C DIN EN ISO 2592
Auto-ignition temperature:	240 °C
Decomposition temperature:	No data available
pH-Value:	not applicable
Viscosity / kinematic: (at 40 °C)	29 mm <sup>2</sup> /s DIN EN ISO 3104
Solubility in other solvents	
No data available	
Partition coefficient n-octanol/water:	No data available
Vapour pressure:	No data available
Density (at 20 °C):	0,880 g/cm <sup>3</sup> DIN EN ISO 12185
Relative vapour density:	No data available

**Other information****Information with regard to physical hazard classes**

Explosive properties

not Explosive.

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Self-ignition temperature

Solid:

No data available

Gas:

No data available

Oxidizing properties

Not oxidising.

**Other safety characteristics**

Evaporation rate:

No data available

Pour point:

-15 °C

**Further Information**

No data available

**10. Stability and reactivity****Reactivity**

The product is stable under storage at normal ambient temperatures.

**Chemical stability**

The mixture is chemically stable under recommended conditions of storage, use and temperature.

**Possibility of hazardous reactions**

No known hazardous reactions.

**Conditions to avoid**

Refer to chapter 7 No further action is necessary.

Do not overheat to avoid decomposition by heat.

**Incompatible materials**

Reacts with: Oxidizing agents, strong.

**Hazardous decomposition products**In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO<sub>2</sub>) Nitrogen oxides (NO<sub>x</sub>). Sulphur oxides carbon black.**11. Toxicological information****Information on toxicological effects****Acute toxicity**

Based on available data, the classification criteria are not met.

**Irritation and corrosivity**

Based on available data, the classification criteria are not met.

**Sensitizing effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Specific effects in experiment on an animal**

No data available

**Information on other hazards**

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**Endocrine disrupting properties**

not applicable

**12. Ecological information****Ecotoxicity**

Based on available data, the classification criteria are not met.

**Persistence and degradability**

Not easily bio-degradable (according to OECD-criteria). Do not allow to enter into surface water or drains.

**Bioaccumulative potential**

No data available

**Mobility in soil**

Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants.

**Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**Other adverse effects**

No data available

**Further information**

Do not allow uncontrolled discharge of product into the environment.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Must not be disposed of with domestic refuse. Do not allow to enter into surface water or drains.

**List of Wastes Code - residues/unused products**

120107 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; mineral-based machining oils free of halogens (except emulsions and solutions); 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 disposed of.

**14. Transport information****Land transport (ADR/RID)****UN number or ID number:** -**United Nations proper shipping** -**name:****Transport hazard class(es):** -**Packing group:** -**Inland waterways transport (ADN)****UN number or ID number:** -**United Nations proper shipping** -**name:****Transport hazard class(es):** -**Packing group:** -

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**Marine transport (IMDG)**

UN number or ID number: -  
United Nations proper shipping name: -  
Transport hazard class(es): -  
Packing group: -

**Air transport (ICAO-TI/IATA-DGR)**

UN number or ID number: -  
United Nations proper shipping name: -  
Transport hazard class(es): -  
Packing group: -

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**Special precautions for user**

Unless specified otherwise, general measures for safe transport must be followed.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

No dangerous good in sense of these transport regulations.

**15. Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

**Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**16. Other information****Changes**

This data sheet contains changes from the previous version in section(s): 5,6,11,12,16.

**Abbreviations and acronyms**

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ASTM - American Society for the Testing of Materials; ATE - Acute Toxicity Estimates; bw - Body weight; CAO - Cargo Aircraft Only; CAS - Chemical Abstracts Service; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DNEL - Derived No-Effect Level; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); EG - European Union; EN - European standards; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; OECD - Organization for Economic Co-operation and Development; PBT - Persistent, Bioaccumulative and Toxic substance; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European

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Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulation concerning the International Carriage of Dangerous Goods by Rail; RQ - Reportable Quantity; SADT - Self- Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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**Further Information**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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.)*