



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL System Cleaner 1-33

Print date: 28.07.2014

Product code: 732050

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

##### 1.1. Product identifier

ADDINOL System Cleaner 1-33

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

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

Cleaning agent.

##### 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

R phrases:  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

###### GHS classification

Hazard categories:  
 Serious eye damage/eye irritation: Eye Irrit. 2  
 Respiratory/skin sensitization: Skin Sens. 1  
 Hazardous to the aquatic environment: Aquatic Chronic 3  
 Hazard Statements:  
 Causes serious eye irritation.  
 May cause an allergic skin reaction.  
 Harmful to aquatic life with long lasting effects.

##### 2.2. Label elements

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

Contains: Reaction products of bis(2-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched).

Signal word: Warning

Pictograms: GHS07



###### Hazard statements

H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.



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#### Precautionary statements

P102	Keep out of reach of children.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear suitable gloves and eye/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.

#### Additional advice on labelling

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

#### 2.3. Other hazards

Contains: < 0,45% 1-(2-Hydroxyethyl)-2-(heptadecenyl)-imidazoline. May produce an allergic reaction.

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		
931-384-6	Reaction products of bis(2-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)	< 6,00 %
	Xn - Harmful, N - Dangerous for the environment R22-41-43-51-53	
	Flam. Liq. 3, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 2; H226 H302 H318 H317 H411	
01-2119493620-38		
253-249-4	Bis(nonylphenyl)amine	< 3,00 %
36878-20-3	R53	
	Aquatic Chronic 4; H413	
01-2119488911-28		
248-248-0	1-(2-Hydroxyethyl)-2-(heptadecenyl)-imidazoline	< 0,45 %
27136-73-8	C - Corrosive, N - Dangerous for the environment R34-43-50-53	
	Acute Tox. 4, Skin Corr. 1C, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H318 H317 H400 H410	
204-539-4	diphenylamine	< 0,15 %
122-39-4	T - Toxic, N - Dangerous for the environment R23/24/25-33-50-53	
612-026-00-5	Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H331 H311 H301 H373 ** H400 H410	

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

#### Further Information

DMSO-Extrakt < 3 %, IP 346.

Concentration of PCBs < 1mg/kg.



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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. Change contaminated clothing.

###### 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.

#### 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>). Phosphorus oxides. Sulfur 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 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).



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Treat the assimilated material according to the section on waste disposal. Clean contaminated objects and areas thoroughly observing environmental regulations.

## 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

Recommended storage temperature: 10 - 30°C

Protect against: heat. UV-radiation/sunlight. frost.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
122-39-4	Diphenylamine	-	10		TWA (8 h)	
		-	20		STEL (15 min)	

#### Additional advice on limit values

source:

Recommended limit value for oil mist

TWA: 5 mg/m<sup>3</sup>

STEL: 10 mg/m<sup>3</sup>

### 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.

#### 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



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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: yellow  
 Odour: like: mineral oil.

#### Test method

#### Changes in the physical state

Initial boiling point and boiling range:	No data available
Flash point:	180 °C DIN EN ISO 2592
Ignition temperature:	No data available
Density (at 15 °C):	0,895 g/cm <sup>3</sup> DIN 51757
Water solubility:	virtually insoluble
Viscosity / kinematic: (at 40 °C)	43 mm <sup>2</sup> /s DIN 51562

## SECTION 10: Stability and reactivity

### 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

Oxidizing agents, strong.

### 10.6. Hazardous decomposition products

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Phosphorus oxides. Sulfur 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.



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CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
	Reaction products of bis(2-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)				
	oral	ATE	500 mg/kg		
27136-73-8	1-(2-Hydroxyethyl)-2-(heptadecenyl)-imidazoline				
	oral	ATE	500 mg/kg		
122-39-4	diphenylamine				
	oral	ATE	100 mg/kg		
	dermal	ATE	300 mg/kg		
	inhalative vapour	ATE	3 mg/l		
	inhalative aerosol	ATE	0,5 mg/l		

#### Irritation and corrosivity

Irritant effect on the eye: irritant.

Irritant effect on the skin: Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

#### Sensitising effects

Contains: < 0,45% 1-(2-Hydroxyethyl)-2-(heptadecenyl)-imidazoline. May produce an allergic reaction.

#### 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

Product is partially biodegradable. 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



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#### 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

130110 OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19); waste hydraulic oils; mineral based non-chlorinated hydraulic 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

#### 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): 2 - 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

22	Harmful if swallowed.
23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
33	Danger of cumulative effects.
34	Causes burns.
41	Risk of serious damage to eyes.
43	May cause sensitisation by skin contact.
50	Very toxic to aquatic organisms.
51	Toxic to aquatic organisms.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
53	May cause long-term adverse effects in the aquatic environment.

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

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.



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H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

#### 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.

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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.)*