according to Regulation (EC) No 1907/2006

ADDINOL	FoodProof	Bio 46
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# SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

ADDINOL FoodProof Bio 46

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

## Use of the substance/mixture

readily biodegradable engine, gear and lubricating oils

## 1.3. 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	
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	
Supplier		
Company name:	GEM OILS LIMITED	
Place:	IRL-H12K298 Regaskin Co. Cavan	
Telephone:	+353 49 4378116	Telefax: +353 49 4368329
E-mail:	sales@gemoils.ie	
Contact person:	GEM OILS LIMITED	Telephone: +353 49 4378116
E-mail:	sales@gemoils.ie	
Internet:	https://gemoils.ie/	
1.4. Emergency telephone	Healthcare Professionals: +353 (1) 809	2566 (24 hour service)
number		

#### number:

SECTION 2: Hazards identification

# 2.1. Classification of the substance or mixture

# Regulation (EC) No 1272/2008

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

# 2.2. Label elements

## Regulation (EC) No 1272/2008

### Hazard statements

H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

P273 P501 Avoid release to the environment.

Dispose of contents/container to industrial incineration plant.

### Additional advice on labelling

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

# 2.3. Other hazards

Revision No: 1,02 - Replaces version: 1,01

according to Regulation (EC) No 1907/2006

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No risks worthy of mention.

If handled with proper care and at intended use, the product does not cause any harmful effects acc. to our experiences and available information.

# **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures

### **Relevant ingredients**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No	1272/2008)		
597-82-0	O,O,O-triphenyl phosphorothioat			< 0.1 %
	209-909-9		01-2119979545-2	1
	Aquatic Chronic 1; H410			

Full text of H and EUH statements: see section 16.

### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
597-82-0	209-909-9	O,O,O-triphenyl phosphorothioat	< 0.1 %
dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 10000 mg/kg Aquatic Chronic 1; H410: M=10			

### **Further Information**

DMSO-Extract < 3 %; IP 346. 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. 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

according to Regulation (EC) No 1907/2006

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## 5.1. Extinguishing media

# Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Water spray. alcohol resistant foam.

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 (CO2). Nitrogen oxides (NOx). Sulfur oxides. carbon black.

## 5.3. Advice for firefighters

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

## Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet 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

### 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.

#### 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

### 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.

## 6.4. 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

### **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, 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, smoke or sneeze at the workplace.

### 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 absorbtion of humidity. Keep container tightly closed in a cool place. Keep/Store only in original container.

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# Hints on joint storage

Keep away from food, drink and animal feedingstuffs. Keep away from: Oxidizing agent

# Further information on storage conditions

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

# **Occupational exposure limits**

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
128-37-0	2,6-Ditertiary-butyl-para-cresol	-	2		TWA (8 h)	

## **DNEL/DMEL** values

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
128-37-0	2,6-di-tert-butyl-4-methylphenol				
Worker DNEL,	long-term	inhalation	systemic	1,76 mg/m³	
Worker DNEL,	long-term	dermal	systemic	0,5 mg/kg bw/day	
Consumer DNE	EL, long-term	inhalation	systemic	0,435 mg/m³	
Consumer DNEL, long-term		dermal	systemic	0,25 mg/kg bw/day	
Consumer DNEL, long-term		oral	systemic	0,25 mg/kg bw/day	
597-82-0	597-82-0 O,O,O-triphenyl phosphorothioat				
Worker DNEL,	long-term	inhalation	systemic	1,39 mg/m³	
Worker DNEL,	long-term	dermal	systemic	0,4 mg/kg bw/day	
Consumer DNEL, long-term		inhalation	systemic	0,34 mg/m³	
Consumer DNE	EL, long-term	dermal	systemic	0,2 mg/kg bw/day	
Consumer DNE	EL, long-term	oral	systemic	0,2 mg/kg bw/day	

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## **PNEC** values

CAS No	Substance	
Environment	tal compartment	Value
128-37-0	2,6-di-tert-butyl-4-methylphenol	
Freshwater		0,000199 mg/l
Freshwater (	(intermittent releases)	0,00199 mg/l
Marine wate	r	0,00002 mg/l
Freshwater s	sediment	0,458 mg/kg
Marine sedir	nent	0,046 mg/kg
Secondary p	poisoning	16,67 mg/kg
Micro-organi	isms in sewage treatment plants (STP)	0,017 mg/l
Soil		0,054 mg/kg
597-82-0	O,O,O-triphenyl phosphorothioat	
Soil		2,37 mg/kg

# Additional advice on limit values

Recommended limit value for oil mist TWA: 5 mg/m<sup>3</sup> STEL: 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 exhaustion at critical locations.

# 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 are to 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. Cosaint riospráide le scagaire i gcoinne gás orgánach agus gaile cineál A - fiuchphointe> 65 ° C: A1:

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<1000 ppm; A2: <5000 ppm; A3: <10,000 ppm.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

9.1. Information on basic physical and cher	nical properties	
Physical state:	Liquid	
Colour:	light yellow - yellow-orange	
Odour:	like: mineral oil.	
Odour threshold:	not determined	
		Test method
Melting point/freezing point:	No data available	
Boiling point or initial boiling point and	not determined	
boiling range:		
Flammability:	No data available	
Lower explosion limits:	No data available	
Upper explosion limits:	No data available	
Flash point:	240 °C	DIN EN ISO 2592
Auto-ignition temperature:	not determined	
Decomposition temperature:	No data available	
pH-Value:	not applicable	
Viscosity / kinematic:	47 mm²/s	ASTM D 7042
(at 40 °C)		
Water solubility:	virtually insoluble	
Solubility in other solvents		
No data available	<b>N</b> 1 17 11	
Partition coefficient n-octanol/water:	No data available	
Vapour pressure: Density (at 15 °C):	No data available 0,950 g/cm³	DIN 51757
Relative vapour density:	No data available	DIN 51757
Particle characteristics:	No data available	
9.2. Other information		
Information with regard to physical haza	ard classes	
Explosive properties No data available		
Self-ignition temperature		
Solid:	No data available	
Gas:	No data available	
Oxidizing properties		
No data available		
Other safety characteristics		
Evaporation rate:	No data available	
Pour point:	-54 °C	ASTM D 7346
- -		

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

# 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

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# 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 : Oxidising agent, strong. Acid.

## 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx). Sulfur oxides. carbon black. No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Acute toxicity

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

#### **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
597-82-0	O,O,O-triphenyl phosphorothioat					
	oral	LD50 > 10000 mg/kg	Rat			
	dermal	LD50 > 2000 mg/kg	Rat			

### Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met. Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: 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.

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

### Aspiration hazard

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

## 11.2. Information on other hazards

Endocrine disrupting properties

not applicable

### Further information

If handled with proper care and at intended use, the product does not cause any harmful effects acc. to our experiences and available information.

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## **SECTION 12: Ecological information**

## 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

Mixture not tested.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
597-82-0	O,O,O-triphenyl phosphorothioat						
	Acute fish toxicity	LC50 mg/l	> 100	96 h	Danio rerio (zebrafish)		
	Acute algae toxicity	ErC50 mg/l	> 100		Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna		

### 12.2. Persistence and degradability

Biodegradable.

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

## 12.6. 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.

## 12.7. Other adverse effects

No data available

### Further information

Do not allow uncontrolled leakage of product into the environment. Do not allow to enter into surface water or drains.

## **SECTION 13: Disposal considerations**

## 13.1. 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

130207 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; readily biodegradable engine, gear and lubricating oils; 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 or ID number:

14.2. UN proper shipping name:

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14.3. Transport hazard class(es):	-	
14.4. Packing group:	-	
Inland waterways transport (ADN)		
<u>14.1. UN number or ID number:</u>	-	
14.2. UN proper shipping name:	-	
14.3. Transport hazard class(es):	-	
14.4. Packing group:	-	
Marine transport (IMDG)		
14.1. UN number or ID number:	-	
<u>14.2. UN proper shipping name:</u> 14.3. Transport hazard class(es):	-	
14.3. Transport hazard class(es): 14.4. Packing group:		
Air transport (ICAO-TI/IATA-DGR)		
<u>14.1. UN number or ID number:</u>	<u>_</u>	
14.2. UN proper shipping name:	-	
14.3. Transport hazard class(es):	_	
14.4. Packing group:	-	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
14.6. Special precautions for user		
Unless specified otherwise, general m	neasures for safe transport must be followed.	
14.7. Maritime transport in bulk according	to IMO instruments	
not applicable		
Other applicable information		
No dangerous good in sense of these	transport regulations.	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental requ	ulations/legislation specific for the substance or mixture	
EU regulatory information	<u> </u>	
Restrictions on use (REACH, annex XVII)		
Entry 3		
National regulatory information		
Water hazard class (D):	1 - slightly hazardous to water	
	i - signity hazaruous to water	
15.2. Chemical safety assessment		
Chemical safety assessments for sub	stances in this mixture were not carried out.	
SECTION 16: Other information		

# Changes

This data sheet contains changes from the previous version in section(s): 2,16.

according to Regulation (EC) No 1907/2006

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## Abbreviations and acronyms

Aquatic Chronic: Chronic aquatic hazard

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 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

### Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Aquatic Chronic 3; H412	Calculation method

# Relevant H and EUH statements (number and full text)

H410 H412 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

## **Further Information**

The mixture is classified as 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.

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