

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ADDINOL FoodProof UNI 15 S**

Revision date: 14.08.2024

Product code: 736020

Page 1 of 12

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

ADDINOL FoodProof UNI 15 S

UFI: RMDR-M38K-T208-EWN2

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Hydraulic fluid.

For industrial purposes only.

**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 number:**

Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**Asp. Tox. 1; H304  
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

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

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**Dec-1-ene, Trimers, hydrogenated  
1-Decene, Dimer, hydrogenated**Signal word:** Danger

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ADDINOL FoodProof UNI 15 S**

Revision date: 14.08.2024

Product code: 736020

Page 2 of 12

**Pictograms:****Hazard statements**

H304 May be fatal if swallowed and enters airways.  
 H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P273 Avoid release to the environment.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
 P331 Do NOT induce vomiting.  
 P405 Store locked up.  
 P501 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**

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.  
 Do not allow uncontrolled leakage of product into the environment.

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)			
157707-86-3	Dec-1-ene, Trimers, hydrogenated			< 80 %
	500-393-3			
	Asp. Tox. 1; H304			
68649-11-6	1-Decene, Dimer, hydrogenated			10 - < 20 %
	500-228-5		01-2119493069-28	
	Acute Tox. 4, Asp. Tox. 1; H332 H304			
128-37-0	2,6-Di-tert-butyl-4-methylphenol			0.3 - < 0.5 %
	204-881-4		01-2119480433-40	
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ADDINOL FoodProof UNI 15 S**

Revision date: 14.08.2024

Product code: 736020

Page 3 of 12

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

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
157707-86-3	500-393-3	Dec-1-ene, Trimers, hydrogenated	< 80 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	
68649-11-6	500-228-5	1-Decene, Dimer, hydrogenated	10 - < 20 %
		inhalation: LC50 = 900-5200 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	
128-37-0	204-881-4	2,6-Di-tert-butyl-4-methylphenol	0.3 - < 0.5 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 6000 mg/kg Aquatic Acute 1; H400: M=1	

**Further Information**

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

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. Call a physician immediately.

Caution if victim vomits: Risk of aspiration!

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

The following symptoms may occur: Coughing. difficulties of breathing.

**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>). Sulfur oxides. carbon black.

**5.3. Advice for firefighters**

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## ADDINOL FoodProof UNI 15 S

Revision date: 14.08.2024

Product code: 736020

Page 4 of 12

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. Avoid contact with skin, eyes and clothes.

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

#### 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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL FoodProof UNI 15 S

Revision date: 14.08.2024

Product code: 736020

Page 5 of 12

#### 8.1. Control parameters

##### Occupational exposure limits

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
128-37-0	2,6-Ditertiary-butyl-para-cresol	-	2		TWA (8 h)	

##### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
68649-11-6	1-Decene, Dimer, hydrogenated			
	Worker DNEL, acute	inhalation	systemic	60 mg/m <sup>3</sup>
	Consumer DNEL, acute	inhalation	systemic	50 mg/m <sup>3</sup>
128-37-0	2,6-Di-tert-butyl-4-methylphenol			
	Consumer DNEL, long-term	inhalation	systemic	0,435 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	0,25 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	0,25 mg/kg bw/day
	Worker DNEL, long-term	dermal	systemic	0,5 mg/kg bw/day
	Worker DNEL, long-term	inhalation	systemic	1,76 mg/m <sup>3</sup>

##### PNEC values

CAS No	Substance	Value
128-37-0	2,6-Di-tert-butyl-4-methylphenol	
	Freshwater	0,000199 mg/l
	Freshwater (intermittent releases)	0,00199 mg/l
	Marine water	0,00002 mg/l
	Freshwater sediment	0,458 mg/kg
	Marine sediment	0,046 mg/kg
	Secondary poisoning	16,67 mg/kg
	Micro-organisms in sewage treatment plants (STP)	0,017 mg/l
	Soil	0,054 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 exhaust at critical locations.

##### Individual protection measures, such as personal protective equipment

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ADDINOL FoodProof UNI 15 S**

Revision date: 14.08.2024

Product code: 736020

Page 6 of 12

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

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	colourless - light yellow
Odour:	characteristic
Odour threshold:	not determined

	Test method
Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	not determined
Flammability:	No data available
Lower explosion limits:	No data available
Upper explosion limits:	No data available
Flash point:	200 °C DIN EN ISO 2592
Auto-ignition temperature:	not determined
Decomposition temperature:	No data available
pH-Value:	not applicable
Viscosity / kinematic: (at 40 °C)	15,1 mm <sup>2</sup> /s ASTM D 7042
Water solubility:	virtually insoluble
Solubility in other solvents	
No data available	
Partition coefficient n-octanol/water:	No data available
Vapour pressure:	No data available
Density (at 15 °C):	0,827 g/cm <sup>3</sup> DIN 51757
Relative vapour density:	No data available

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ADDINOL FoodProof UNI 15 S**

Revision date: 14.08.2024

Product code: 736020

Page 7 of 12

**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:

-70 °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.

**10.4. Conditions to avoid**

Do not overheat to avoid decomposition by heat.

Refer to chapter 7 No further action is necessary.

**10.5. Incompatible materials**

Reacts with : Oxidising agent, strong. Acid.

**10.6. Hazardous decomposition products**In case of fire may be liberated: Carbon monoxide Nitrogen oxides (NO<sub>x</sub>). Sulfur oxides. Nitrogen oxides (NO<sub>x</sub>). carbon black.**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) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) 91,67 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL FoodProof UNI 15 S

Revision date: 14.08.2024

Product code: 736020

Page 8 of 12

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
157707-86-3	Dec-1-ene, Trimers, hydrogenated				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1994)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1995)	OECD Guideline 402
68649-11-6	1-Decene, Dimer, hydrogenated				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1988)	OECD Guideline 423
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1989)	OECD Guideline 402
	inhalation (4 h) vapour	LC50 900-5200 mg/l	Rat	Study report (1989)	OECD Guideline 402
128-37-0	2,6-Di-tert-butyl-4-methylphenol				
	oral	LD50 > 6000 mg/kg	Rat	Study report (1989)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1988)	OECD Guideline 402

#### 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 defatting or dermatitis.

#### Aspiration hazard

May be fatal if swallowed and enters airways.

### 11.2. Information on other hazards

#### Endocrine disrupting properties

not applicable

## SECTION 12: Ecological information

### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

Mixture not tested.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL FoodProof UNI 15 S

Revision date: 14.08.2024

Product code: 736020

Page 9 of 12

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
157707-86-3	Dec-1-ene, Trimers, hydrogenated					
	Acute fish toxicity	LL50 > 1000 mg/l	96 h	Oncorhynchus mykiss	Study report (1995)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 1000 mg/l	96 h	Pseudokirchneriella subcapitata	Study report (1995)	OECD Guideline 201
	Acute crustacea toxicity	EL50 > 1000 mg/l	48 h	Daphnia magna	Study report (1995)	OECD Guideline 202
128-37-0	2,6-Di-tert-butyl-4-methylphenol					
	Acute fish toxicity	LC50 0,199 mg/l	96 h	Oryzias latipes	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 0,758 mg/l	96 h	Pseudokirchneriella subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 0,48 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
	Fish toxicity	NOEC 0,053 mg/l	30 d	Oryzias latipes	REACH Registration Dossier	OECD Guideline 210
	Crustacea toxicity	NOEC 0,069 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211
	Acute bacteria toxicity	EC50 > 10000 mg/l ( )	3 h	Activated sludge	Study report (2000)	OECD Guideline 209

#### **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

#### **Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
157707-86-3	Dec-1-ene, Trimers, hydrogenated	> 6,5
68649-11-6	1-Decene, Dimer, hydrogenated	> 6,5
128-37-0	2,6-Di-tert-butyl-4-methylphenol	5,03

#### **BCF**

CAS No	Chemical name	BCF	Species	Source
128-37-0	2,6-Di-tert-butyl-4-methylphenol	465		REACH Registration D

#### **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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ADDINOL FoodProof UNI 15 S**

Revision date: 14.08.2024

Product code: 736020

Page 10 of 12

**Further information**

Do not allow uncontrolled leakage of product into the environment.

**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**

130206 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; synthetic 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:** -**14.3. Transport hazard class(es):** -**14.4. Packing group:** -**Inland waterways transport (ADN)****14.1. UN number or ID number:** -**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:** -**14.2. UN proper shipping name:** -**14.3. Transport hazard class(es):** -**14.4. Packing group:** -**Air transport (ICAO-TI/IATA-DGR)****14.1. UN number or ID number:** -**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 measures 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 regulations/legislation specific for the substance or mixture****EU regulatory information**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL FoodProof UNI 15 S

Revision date: 14.08.2024

Product code: 736020

Page 11 of 12

Restrictions on use (REACH, annex XVII):

Entry 3

#### National regulatory information

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

#### 15.2. Chemical safety assessment

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

### SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 2,4,5,6,8,10,11.

#### Abbreviations and acronyms

Acute Tox: Acute toxicity

Asp. Tox: Aspiration hazard

Aquatic Acute: Acute aquatic hazard

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
Asp. Tox. 1; H304	Calculation method
Aquatic Chronic 3; H412	Calculation method

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

H304	May be fatal if swallowed and enters airways.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ADDINOL FoodProof UNI 15 S**

Revision date: 14.08.2024

Product code: 736020

Page 12 of 12

**Further Information**

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

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