according to UK REACH Regulation

ADDINOL Foo	dProof CL	.P 320 WX
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

ADDINOL FoodProof CLP 320 WX

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

Use of the substance/mixture

Lubricant and additive.

1.3. Details of the supplier of the safety data sheet

Manufacturer

	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:	Gidov Oil & Logistics Ltd.	
	Street:	76 Cobham Road, Ferndown Industrial Estate	
	Place:	GB-TN157DA Wrotham, Sevenoaks Kent	
	Telephone:	+44 7729229830	Telefax: +44 7729229830
	E-mail:	sales@addinol.co.uk	
	Internet:	https://www.gidovlogistics.co.uk/	
1	I.4. Emergency telephone	+44 7729229830 - This number is serviced dur	ring office hours.

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

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

H412

P273

P501

GB CLP Regulation

Hazard statements

Harmful to aquatic life with long lasting effects.

Precautionary statements

Avoid release to the environment.

Dispose of contents/container to an appropriate recycling or disposal facility.

Additional advice on labelling

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

2.3. Other hazards

according to UK REACH Regulation

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Prolonged/repetitive skin contact may cause skin defattening 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		
	Classification (GB CLP Regulation)		
9003-29-6	Polybutenes	20 - < 40 %	
	500-004-7		
	Asp. Tox. 1; 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		

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.	Specific Conc. Limits, M-factors and ATE						
9003-29-6	500-004-7	0-004-7 Polybutenes						
	inhalation: LC50 = 4820 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 10000 mg/kg							
128-37-0	204-881-4	04-881-4 2,6-Di-tert-butyl-4-methylphenol						
	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.

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After ingestion

Do NOT induce vomiting.

Rinse mouth immediately and drink plenty of 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 Treat symptomatically.

SECTION 5: Firefighting measures

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

5.3. Advice for firefighters

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). Collect in closed containers for 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.

according to UK REACH Regulation

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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.

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: refer to Technical Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
128-37-0	2,6-Di-tert-butyl-p-cresol	-	10		TWA (8 h)	WEL

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
128-37-0	2,6-Di-tert-butyl-4-methylphenol			
Consumer DNEL, long-term inhalation systemic 0,43				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
Worker DNEL, long-term		dermal	systemic	0,5 mg/kg bw/day
Worker DNEL,	Worker DNEL, long-term		systemic	1,76 mg/m³

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PNEC values

CAS No	Substance					
Environmen	tal compartment	Value				
128-37-0	2,6-Di-tert-butyl-4-methylphenol					
Freshwater		0,000199 mg/l				
Freshwater	Freshwater (intermittent releases)					
Marine wate	r	0,00002 mg/l				
Freshwater	sediment	0,458 mg/kg				
Marine sedi	nent	0,046 mg/kg				
Secondary p	Secondary poisoning					
Micro-organ	Micro-organisms in sewage treatment plants (STP)					
Soil		0,054 mg/kg				

Additional advice on limit values

Recommended limit value for oil mist TWA: 5 mg/m³ STEL: 10 mg/m³

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

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. Breathing protection with filter against organic gases and vapours type A - boiling point > 65° C: A1: <

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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:	light yellow - yellow		
Odour:	characteristic		
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:		260 °C	DIN EN ISO 2592
Auto-ignition temperature:		not determined	
Decomposition temperature:		No data available	
pH-Value:		not applicable	
Viscosity / kinematic:		302 mm²/s	ASTM D 7042
(at 40 °C)			
Water solubility:		practically insoluble	
Solubility in other solvents			
No data available			
Partition coefficient n-octanol/water:		No data available	
Vapour pressure:		No data available	D.N. 54757
Density (at 15 °C):		0,876 g/cm³	DIN 51757
Relative vapour density:		No data available	
Particle characteristics:		No data available	
9.2. Other information			
Information with regard to physical haz	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		No data available	
Evaporation rate:			
Pour point:		-20 °C	ASTM D 7346
SECTION 40. Stability and reactivity			

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.

according to UK REACH Regulation

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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 (NOx). Sulfur oxides. Nitrogen oxides (NOx). carbon black. No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

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 Sp		Species	Source	Method			
9003-29-6	Polybutenes	Polybutenes						
	oral LD50 > 10000 F mg/kg			Rat	Study report (1986)	OECD Guideline 401		
	dermal LD50 > 2000 R mg/kg		Rat	Study report (1996)	OECD Guideline 402			
	inhalation (4 h) vapour	LC50	4820 mg/l	Rat				
128-37-0	2,6-Di-tert-butyl-4-methy	Iphenol						
	oral	LD50 mg/kg	> 6000	Rat	Study report (1989)	OECD Guideline 401		
	dermal LD50 > 2000 Rat 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 defattening or dermatitis.

Aspiration hazard

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

11.2. Information on other hazards

according to UK REACH Regulation

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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.

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		
9003-29-6	Polybutenes								
	Acute fish toxicity	LC50 mg/l	> 1,55	96 h	Cyprinus carpio	Other company data (2002)	OECD Guideline 203		
	Acute algae toxicity	ErC50 mg/l	> 19,2	72 h	Desmodesmus subspicatus	Other company data (2009)	OECD Guideline 201		
	Acute crustacea toxicity	EC50 mg/l	> 3,1	48 h	Daphnia magna	Study report (2000)	OECD Guideline 202		
128-37-0	2,6-Di-tert-butyl-4-methyl	phenol							
	Acute fish toxicity	LC50 mg/l	0,199	96 h	Oryzias latipes	REACh Registration Dossier	OECD Guideline 203		
	Acute algae toxicity	ErC50 mg/l	0,758	96 h	Pseudokirchneriella subcapitata	REACh Registration Dossier	OECD Guideline 201		
	Acute crustacea toxicity	EC50 mg/l	0,48	48 h	Daphnia magna	REACh Registration Dossier	OECD Guideline 202		
	Fish toxicity	NOEC mg/l	0,053	30 d	Oryzias latipes	REACh Registration Dossier	OECD Guideline 210		
	Crustacea toxicity	NOEC mg/l	0,069	21 d	Daphnia magna	REACh Registration Dossier	OECD Guideline 211		
	Acute bacteria toxicity	EC50 mg/l()	> 10000	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
9003-29-6	Polybutenes	7,6 - 7,8
128-37-0	2,6-Di-tert-butyl-4-methylphenol	5,03

BCF

CAS No	Chemical name	BCF	Species	Source
9003-29-6	Polybutenes	314 - 1882		USEPA (2008)
128-37-0	2,6-Di-tert-butyl-4-methylphenol	465	Fish	REACh Registration D

according to UK REACH Regulation

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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 UK REACH.

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.

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

130205 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated 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)

<u>14.1. UN number or ID number:</u>	-
14.2. UN proper shipping name:	-
<u>14.3. Transport hazard class(es):</u>	-
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:	-
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:	-
<u>14.3. Transport hazard class(es):</u>	-
14.4. Packing group:	-
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	No
14.6. Special precautions for user	

according to UK REACH Regulation

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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

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): 2,5,8,9,16.

Abbreviations and acronyms

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 GB CLP Regulation

Classification	Classification procedure
Aquatic Chronic 3; H412	Calculation method
	·

Relevant H and EUH statements (number and full text)

H304 May be fatal if swallowed and enters airways. H400 Very toxic to aquatic life.

according to UK REACH Regulation

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H410Very toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.

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.

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