

**Safety Data Sheet**

according to UK REACH Regulation

**ADDINOL Superior 020 P**

Revision date: 27.11.2023

Product code: 720967

Page 1 of 14

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

ADDINOL Superior 020 P

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

Motor oil.

**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:	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/	

**1.4. Emergency telephone number:**

+44 7729229830 - This number is serviced during office hours.

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

**2.2. Label elements****GB CLP Regulation****Special labelling of certain mixtures**

EUH208	Contains Molybdenum polysulphide long chain alkyl dithiocarbamate complex, C14-16-18 Alkyl phenol, N,N-Bis(2-ethylhexyl)-[(1,2,4-triazol-1-yl)methyl]amin. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Additional advice on labelling**

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

**2.3. Other hazards**

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**

## Safety Data Sheet

according to UK REACH Regulation

### ADDINOL Superior 020 P

Revision date: 27.11.2023

Product code: 720967

Page 2 of 14

#### Chemical characterization

Motor oil.

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
72623-87-1	Lubricating oils, C20-50, hydrotreated neutral oil-based			60 - < 80 %
	276-738-4		01-2119474889-13	
	Asp. Tox. 1; H304			
72623-86-0	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified			5 - < 10 %
	276-737-9		01-2119474878-16	
	Asp. Tox. 1; H304			
68037-01-4	1-Decene, homopolymer, hydrogenated			5 - < 10 %
	500-183-1		01-2119486452-34	
	Asp. Tox. 1; H304			
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified			5 - < 10 %
	265-157-1		01-2119484627-25	
	Asp. Tox. 1; H304			
	Molybdenum polysulphide long chain alkyl dithiocarbamate complex			0.5 - < 1 %
	457-320-2		01-0000019337-66	
	Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 3; H315 H317 H412			
1190625-94-5	C14-16-18 Alkyl phenol			0.5 - < 1 %
	931-468-2		01-2119498288-1	
	Skin Sens. 1B, STOT RE 2; H317 H373			
91273-04-0	N,N-Bis(2-ethylhexyl)-[(1,2,4-triazol-1-yl)methyl]amin			0.1 - < 0.3 %
	401-280-0		01-2119930450-49	
	Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 1; H314 H317 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	
72623-87-1	276-738-4	Lubricating oils, C20-50, hydrotreated neutral oil-based	60 - < 80 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	
72623-86-0	276-737-9	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified	5 - < 10 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	
68037-01-4	500-183-1	1-Decene, homopolymer, hydrogenated	5 - < 10 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	
64742-54-7	265-157-1	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	5 - < 10 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	
	457-320-2	Molybdenum polysulphide long chain alkyl dithiocarbamate complex	0.5 - < 1 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	
1190625-94-5	931-468-2	C14-16-18 Alkyl phenol	0.5 - < 1 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	
91273-04-0	401-280-0	N,N-Bis(2-ethylhexyl)-[(1,2,4-triazol-1-yl)methyl]amin	0.1 - < 0.3 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = 2505 mg/kg	

# Safety Data Sheet

according to UK REACH Regulation

## ADDINOL Superior 020 P

Revision date: 27.11.2023

Product code: 720967

Page 3 of 14

### Further Information

DMSO-Extrakt &lt; 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

### 5.1. Extinguishing media

#### Suitable extinguishing media

Atomized water. Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>).

#### 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>). aldehydes. Hydrogen sulphide (H<sub>2</sub>S). Nitrogen oxides (NO<sub>x</sub>). Sulfur oxides. 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.

# Safety Data Sheet

according to UK REACH Regulation

## ADDINOL Superior 020 P

Revision date: 27.11.2023

Product code: 720967

Page 4 of 14

### **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**

Recommended storage temperature: 5 - 40°C

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

### **7.3. Specific end use(s)**

Further information: see technical data sheet.

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

## Safety Data Sheet

according to UK REACH Regulation

### ADDINOL Superior 020 P

Revision date: 27.11.2023

Product code: 720967

Page 5 of 14

#### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
72623-87-1	Lubricating oils, C20-50, hydrotreated neutral oil-based			
Worker DNEL, long-term		inhalation	systemic	2,73 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	5,58 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,97 mg/kg bw/day
Consumer DNEL, long-term		inhalation	local	1,19 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	0,74 mg/kg bw/day
72623-86-0	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified			
Consumer DNEL, long-term		inhalation	local	1,19 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	0,74 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	2,73 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	5,58 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,97 mg/kg bw/day
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified			
Worker DNEL, long-term		inhalation	systemic	2,73 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	5,58 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,97 mg/kg bw/day
Consumer DNEL, long-term		inhalation	local	1,19 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	0,74 mg/kg bw/day
	Molybdenum polysulphide long chain alkyl dithiocarbamate complex			
Worker DNEL, long-term		inhalation	systemic	3,52 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	2,23 mg/kg bw/day
Worker DNEL, long-term		dermal	local	0,075 mg/cm <sup>2</sup>
Consumer DNEL, long-term		inhalation	systemic	1,76 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	1,12 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	0,038 mg/cm <sup>2</sup>
Consumer DNEL, long-term		oral	systemic	0,5 mg/kg bw/day
1190625-94-5	C14-16-18 Alkyl phenol			
Worker DNEL, long-term		inhalation	systemic	1,17 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,3 mg/kg bw/day
91273-04-0	N,N-Bis(2-ethylhexyl)-[(1,2,4-triazol-1-yl)methyl]amin			
Worker DNEL, long-term		inhalation	systemic	1,76 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,5 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,43 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	0,25 mg/kg bw/day

## Safety Data Sheet

according to UK REACH Regulation

### ADDINOL Superior 020 P

Revision date: 27.11.2023

Product code: 720967

Page 6 of 14

Consumer DNEL, long-term	oral	systemic	0,25 mg/kg bw/day
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#### PNEC values

CAS No	Substance	Value
Environmental compartment		
72623-87-1	Lubricating oils, C20-50, hydrotreated neutral oil-based	
Secondary poisoning		9,33 mg/kg
72623-86-0	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified	
Secondary poisoning		9,33 mg/kg
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	
Secondary poisoning		9,33 mg/kg
Molybdenum polysulphide long chain alkyl dithiocarbamate complex		
Freshwater		0,081 mg/l
Freshwater (intermittent releases)		0,14 mg/l
Marine water		0,008 mg/l
Freshwater sediment		3449 mg/kg
Marine sediment		344,9 mg/kg
Secondary poisoning		20 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,872 mg/kg
1190625-94-5	C14-16-18 Alkyl phenol	
Freshwater		0,1 mg/l
Freshwater (intermittent releases)		1 mg/l
Marine water		0,01 mg/l
Freshwater sediment		4266,16 mg/kg
Marine sediment		426,62 mg/kg
Secondary poisoning		3,3 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		852,58 mg/kg
91273-04-0	N,N-Bis(2-ethylhexyl)-[(1,2,4-triazol-1-yl)methyl]amin	
Freshwater		0,001 mg/l
Freshwater (intermittent releases)		0,01 mg/l
Marine water		0 mg/l
Freshwater sediment		0,567 mg/kg
Marine sediment		0,057 mg/kg
Micro-organisms in sewage treatment plants (STP)		1 mg/l
Soil		0,2 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

**Safety Data Sheet**

according to UK REACH Regulation

**ADDINOL Superior 020 P**

Revision date: 27.11.2023

Product code: 720967

Page 7 of 14

**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: < 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 brown
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:	220 °C DIN EN ISO 2592
Auto-ignition temperature:	not determined
Decomposition temperature:	No data available
pH-Value:	not applicable
Viscosity / kinematic: (at 100 °C)	8,3 mm <sup>2</sup> /s ASTM D 7042
Water solubility:	virtually insoluble
Solubility in other solvents	
No data available	

**Safety Data Sheet**

according to UK REACH Regulation

**ADDINOL Superior 020 P**

Revision date: 27.11.2023

Product code: 720967

Page 8 of 14

Partition coefficient n-octanol/water:	No data available
Vapour pressure:	No data available
Density (at 15 °C):	0,847 g/cm <sup>3</sup> DIN 51757
Relative vapour density:	No data available

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

-45 °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**

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 (CO<sub>2</sub>). aldehydes. Hydrogen sulphide (H<sub>2</sub>S). Sulfur oxides. Phosphorus oxides. Nitrogen oxides (NO<sub>x</sub>). carbon black.**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.



**Safety Data Sheet**

according to UK REACH Regulation

**ADDINOL Superior 020 P**

Revision date: 27.11.2023

Product code: 720967

Page 9 of 14

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
72623-87-1	Lubricating oils, C20-50, hydrotreated neutral oil-based				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1982)	OECD Guideline 401
	dermal	LD50 > 5000 mg/kg	Rabbit	Study report (1982)	OECD Guideline 402
72623-86-0	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1982)	OECD Guideline 401
	dermal	LD50 > 5000 mg/kg	Rabbit	Study report (1982)	OECD Guideline 402
68037-01-4	1-Decene, homopolymer, 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
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1982)	OECD Guideline 401
	dermal	LD50 > 5000 mg/kg	Rabbit	Study report (1982)	OECD Guideline 402
	Molybdenum polysulphide long chain alkyl dithiocarbamate complex				
	oral	LD50 > 2000 mg/kg	Rat	Study report (2002)	OECD Guideline 425
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2002)	OECD Guideline 402
1190625-94-5	C14-16-18 Alkyl phenol				
	oral	LD50 > 2000 mg/kg	Rat	Study report (2014)	OECD Guideline 423
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2015)	OECD Guideline 402
91273-04-0	N,N-Bis(2-ethylhexyl)-[(1,2,4-triazol-1-yl)methyl]amin				
	oral	LD50 2505 mg/kg	Rat	Study report (1985)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1985)	OECD Guideline 402

**Irritation and corrosivity**

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

**Sensitising effects**

Contains Molybdenum polysulphide long chain alkyl dithiocarbamate complex, C14-16-18 Alkyl phenol, N,N-Bis(2-ethylhexyl)-[(1,2,4-triazol-1-yl)methyl]amin. May produce an allergic reaction.

**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.

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

**Safety Data Sheet**

according to UK REACH Regulation

**ADDINOL Superior 020 P**

Revision date: 27.11.2023

Product code: 720967

Page 10 of 14

**Aspiration hazard**

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

**11.2. Information on other hazards****Endocrine disrupting properties**

not applicable

**SECTION 12: Ecological information****12.1. Toxicity**

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

Mixture not tested.

## Safety Data Sheet

according to UK REACH Regulation

## ADDINOL Superior 020 P

Revision date: 27.11.2023

Product code: 720967

Page 11 of 14

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
72623-87-1	Lubricating oils, C20-50, hydrotreated neutral oil-based					
	Acute fish toxicity	LL50 > 100 mg/l	96 h	Pimephales promelas	Study report (1995)	OECD Guideline 203
	Fish toxicity	NOEC >= 1000 mg/l	14 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a
72623-86-0	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified					
	Acute fish toxicity	LL50 > 100 mg/l	96 h	Pimephales promelas	Study report (1995)	OECD Guideline 203
	Fish toxicity	NOEC >= 1000 mg/l	14 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a
68037-01-4	1-Decene, homopolymer, 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
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified					
	Acute fish toxicity	LL50 > 100 mg/l	96 h	Pimephales promelas	Study report (1995)	OECD Guideline 203
	Acute algae toxicity	ErC50 >100 mg/l	72 h			
	Fish toxicity	NOEC >= 1000 mg/l	14 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a
	Molybdenum polysulphide long chain alkyl dithiocarbamate complex					
	Acute fish toxicity	LL50 > 94,8 mg/l	96 h	Oncorhynchus mykiss	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 9,62 mg/l	72 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EL50 50 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
	Crustacea toxicity	NOEC 100 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211
	Acute bacteria toxicity	(EC50 > 100 mg/l)	3 h	activated sludge of a predominantly domestic sewage	REACH Registration Dossier	OECD Guideline 209
91273-04-0	N,N-Bis(2-ethylhexyl)-[(1,2,4-triazol-1-yl)methyl]amin					
	Acute fish toxicity	LC50 1,1 mg/l	96 h	Danio rerio	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 > 1 mg/l	72 h	Desmodesmus subspicatus	Study report (2004)	OECD Guideline 201
	Acute crustacea toxicity	EC50 5,8 mg/l	48 h	Daphnia pulex	Water, Air and Soil Pollution 97, 315-32	OECD Guideline 202

**Safety Data Sheet**

according to UK REACH Regulation

**ADDINOL Superior 020 P**

Revision date: 27.11.2023

Product code: 720967

Page 12 of 14

	Fish toxicity	NOEC mg/l	> 100	28 d		ECHA, disseminated REACH dossier CAS 288	OECD Guideline 215
	Crustacea toxicity	NOEC mg/l	0,069	21 d	Daphnia magna	Study report (2013)	OECD Guideline 211
	Acute bacteria toxicity	(EC50 mg/l)	100	3 h	Activated sludge	Study report (1989)	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
68037-01-4	1-Decene, homopolymer, hydrogenated	> 6,5
	Molybdenum polysulphide long chain alkyl dithiocarbamate complex	> 5,1
1190625-94-5	C14-16-18 Alkyl phenol	> 16000000
91273-04-0	N,N-Bis(2-ethylhexyl)-[(1,2,4-triazol-1-yl)methyl]amin	-0,58

**BCF**

CAS No	Chemical name	BCF	Species	Source
	Molybdenum polysulphide long chain alkyl dithiocarbamate complex	0	Cyprinus carpio	REACH Registration D
91273-04-0	N,N-Bis(2-ethylhexyl)-[(1,2,4-triazol-1-yl)methyl]amin	< 1		Aquaculture 194, 253

**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**

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.

**Safety Data Sheet**

according to UK REACH Regulation

**ADDINOL Superior 020 P**

Revision date: 27.11.2023

Product code: 720967

Page 13 of 14

**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**

Restrictions on use (REACH, annex XVII):

Entry 28

**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****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 -

**Safety Data Sheet**

according to UK REACH Regulation

**ADDINOL Superior 020 P**

Revision date: 27.11.2023

Product code: 720967

Page 14 of 14

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

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

H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains Molybdenum polysulphide long chain alkyl dithiocarbamate complex, C14-16-18 Alkyl phenol, N,N-Bis(2-ethylhexyl)-[(1,2,4-triazol-1-yl)methyl]amin. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**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.

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