

according to UK REACH Regulation

## TUNFLUID LT220 20I D-GB-F-I-E Kettenöl

Print date: 04.08.2021 Product code: 11ACI14004L0200 Page 1 of 10

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

#### 1.1. Product identifier

TUNFLUID LT220 20I D-GB-F-I-E Kettenöl

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

### Use of the substance/mixture

Lubricant

## 1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name: TUNAP GmbH & Co. KG
Street: Bürgermeister-Seidl-Str. 2
Place: D-82515 Wolfratshausen

Telephone: + 49 (0) 8171/1600 - 0 Telefax: + 49 (0) 8171/1600 - 40

e-mail: sdb@tunap.com Internet: www.tunap.com

**Supplier** 

Company name: TUNAP UK Limited

Street: Unit L4 Deacon Trading Estate, Morley Road

Place: GB Tonbridge, Kent. TN9 1RA

Telephone: +44 (0)1732 365163 e-mail: sdb@tunap.com
Internet: www.tunap.co.uk

**1.4. Emergency telephone** 111 NHS (National Health Service)

number:

## **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.

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

# 2.2. Label elements

### **GB CLP Regulation**

### Special labelling of certain mixtures

EUH208 Contains Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen

dithiophosphate. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

## 2.3. Other hazards

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

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

# 3.2. Mixtures



according to UK REACH Regulation

#### TUNFLUID LT220 20I D-GB-F-I-E Kettenöl

Print date: 04.08.2021 Product code: 11ACI14004L0200 Page 2 of 10

### **Hazardous components**

CAS No	Chemical name		Quantity	
	EC No	Index No	REACH No	
	GHS Classification	•	•	
68425-15-0	5-0 Polysulfides, di-tert-dodecyl			0.1 - < 1 %
	270-335-7			
	Skin Sens. 1B; H317			
4306-88-1	2,6-di-tert-butyl-4-nonylphenol			0.1 - < 1 %
	224-320-7			
	Skin Sens. 1B, Aquatic Acute 1, Aquatic Chronic 1; H317 H400 H410			
	Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate			0.1 - < 1 %
	947-946-9		01-2120772600-59	
	Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 4; H315 H317 H413			

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

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### **General information**

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

#### After inhalation

Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

# After contact with skin

Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

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

Headache, nausea, dizziness, fatigue, skin irritation

# 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

## Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO2). Extinguishing powder.

#### Unsuitable extinguishing media

High power water jet.

### 5.2. Special hazards arising from the substance or mixture

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.



according to UK REACH Regulation

## TUNFLUID LT220 20I D-GB-F-I-E Kettenöl

Print date: 04.08.2021 Product code: 11ACI14004L0200 Page 3 of 10

### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protection equipment.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

### 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). 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

Disposal: see section 13

## **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

# Advice on safe handling

Observe instructions for use.

Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

When using do not eat, drink, smoke, sniff.

Wear personal protection equipment (refer to section 8).

# Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

## Further information on handling

Avoid contact with skin and eyes.

# 7.2. Conditions for safe storage, including any incompatibilities

# Requirements for storage rooms and vessels

Keep container tightly closed. Observe legal regulations and provisions.

## Hints on joint storage

Do not store together with: Oxidizing agents. Pyrophoric or self-heating substances. Food and feedingstuffs.

## Further information on storage conditions

Store in a cool dry place. Observe legal regulations and provisions.

### 7.3. Specific end use(s)

No information available.

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

## 8.1. Control parameters



according to UK REACH Regulation

# TUNFLUID LT220 20I D-GB-F-I-E Kettenöl

Print date: 04.08.2021 Product code: 11ACI14004L0200 Page 4 of 10

#### **DNEL/DMEL values**

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
4306-88-1	2,6-di-tert-butyl-4-nonylphenol				
Worker DNEL,	long-term	inhalation	systemic	7,84 mg/m³	
Worker DNEL, long-term		dermal	systemic	1,11 mg/kg bw/day	
Consumer DNEL, long-term		dermal	systemic	0,56 mg/kg bw/day	
Consumer DNEL, long-term		oral	systemic	0,056 mg/kg bw/day	
Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate					
Worker DNEL,	long-term	inhalation	systemic	4,93 mg/m³	
Worker DNEL, long-term		dermal	systemic	1,4 mg/kg bw/day	
Consumer DNEL, long-term		inhalation	systemic	0,87 mg/m³	
Consumer DNEL, long-term		dermal	systemic	0,5 mg/kg bw/day	
Consumer DNEL, long-term		oral	systemic	0,5 mg/kg bw/day	

### PNEC values

CAS No	Substance	
Environmental compartment		Value
4306-88-1	2,6-di-tert-butyl-4-nonylphenol	
Freshwater		0,000124 mg/l
Freshwater (i	intermittent releases)	0,00124 mg/l
Marine water	•	0,012 mg/l
Freshwater s	rediment	106 mg/kg
Marine sediment		10,6 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		21,1 mg/kg

# Additional advice on limit values

a no restriction

b End of exposure or end of shift

c at long-term exposure:

d before next shift

blood (B)

Urine (U)

## 8.2. Exposure controls

## Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.

## Protective and hygiene measures

Avoid exposure. Wear suitable protective clothing. Draw up and observe skin protection programme.

## Eye/face protection

Suitable eye protection: Tightly sealed safety glasses.

**DIN EN 166** 

## Hand protection

Protect skin by using skin protective cream. When handling with chemical substances, protective gloves must



according to UK REACH Regulation

## TUNFLUID LT220 20I D-GB-F-I-E Kettenöl

Print date: 04.08.2021 Product code: 11ACI14004L0200 Page 5 of 10

be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material: NBR (Nitrile rubber) Breakthrough time: 480min

Thickness of the glove material 0,45 mm

**EN ISO 374** 

### Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

#### Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

When exceeding the relevant workplace exposure limits, note the following:

Suitable respiratory protective equipment: Combination filter device (DIN EN 141)...

Filtering device with filter or ventilator filtering device of type: A

Observe the wear time limits as specified by the manufacturer.

Observe legal regulations and provisions.

# **Environmental exposure controls**

Observe legal regulations and provisions.

# SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: dark brown
Odour: characteristic

Test method

pH-Value (at 20 °C): not determined DIN 19268

Changes in the physical state

Melting point/freezing point:

Boiling point or initial boiling point and

> 150 °C

boiling range:

Flash point: > 100 °C ISO 3679

**Flammability** 

Solid: not applicable
Gas: not applicable

Self-ignition temperature

Solid: not applicable
Gas: not applicable

Decomposition temperature: not determined

**Oxidizing properties** 

Not oxidising.

Vapour pressure: not determined

Density (at 20 °C): 0,93 g/cm³ DIN 51757

Water solubility:

The study does not need to be conducted because the substance is known to be

insoluble in water.

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined



#### according to UK REACH Regulation

### TUNFLUID LT220 20I D-GB-F-I-E Kettenöl

Print date: 04.08.2021 Product code: 11ACI14004L0200 Page 6 of 10

Viscosity / dynamic: DIN 53019-1

Viscosity / kinematic: 220 mm²/s DIN EN ISO 3104

(at 40 °C)

Flow time: DIN EN ISO 2431

(at 20 °C)

Relative vapour density: not determined Evaporation rate: not determined

9.2. Other information

Solid content: not determined

# **SECTION 10: Stability and reactivity**

### 10.2. Chemical stability

The product is stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4. Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharges.

# 10.5. Incompatible materials

Oxidizing agents. Pyrophoric or self-heating substances.

## 10.6. Hazardous decomposition products

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

### **Further information**

Do not mix with other chemicals.

### **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

## Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

## **Acute toxicity**

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

CAS No	Chemical name				
	Exposure route	Dose		Species	Source
68425-15-0	Polysulfides, di-tert-dodecyl				
	oral	LD50	>2000 mg/kg	Rat	
	dermal	LD50	>2000 mg/kg	Rabbit	
	inhalation (4 h) vapour	LC50	>20 mg/l	Rat	
4306-88-1	2,6-di-tert-butyl-4-nonylphenol				
	oral	LD50	>2000 mg/kg	Rat	
	dermal	LD50	> 2000 mg/kg	Rat	Study report (2017)
	inhalation (4 h) aerosol	LC50	>10 mg/l	Rat	



according to UK REACH Regulation

### TUNFLUID LT220 20I D-GB-F-I-E Kettenöl

Print date: 04.08.2021 Product code: 11ACI14004L0200 Page 7 of 10

#### Irritation and corrosivity

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

### Sensitising effects

Contains Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate. May produce an allergic reaction.

### Carcinogenic/mutagenic/toxic effects for reproduction

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

No indications of human carcinogenicity exist.

No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

### 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.

### **Aspiration hazard**

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

### Specific effects in experiment on an animal

No information available.

#### Additional information on tests

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Aquatic toxicity: The classification criteria for this hazard class are not met by definition.

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source		
68425-15-0	Polysulfides, di-tert-dodecyl							
	Acute fish toxicity	LC50	>100 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)			
	Acute algae toxicity	ErC50	>100 mg/l	72 h	Selenastrum capricornutum			
	Acute crustacea toxicity	EC50	>100 mg/l	48 h	Daphnia magna (Big water flea)			
4306-88-1	2,6-di-tert-butyl-4-nonylphenol							
	Acute fish toxicity	LC50	> 10 mg/l	96 h	Oncorhynchus mykiss	REACh Registration Dossier		
	Acute algae toxicity	ErC50	> 0,007 mg/l	72 h	Pseudokirchneriella subcapitata	REACh Registration Dossier		
	Acute crustacea toxicity	EC50	0,124 mg/l	48 h	Daphnia magna	REACh Registration Dossier		
	Acute bacteria toxicity	(> 1000	mg/l)	3 h	activated sludge of a predominantly domestic sewag	REACh Registration Dossier		
	Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate							
	Acute algae toxicity	ErC50	> 100 mg/l	72 h	Pseudokirchneriella subcapitata	REACh Registration Dossier		
	Acute bacteria toxicity	(> 1000	mg/l)	3 h	activated sludge of a predominantly domestic sewag	REACh Registration Dossier		

## 12.2. Persistence and degradability



according to UK REACH Regulation

### TUNFLUID LT220 20I D-GB-F-I-E Kettenöl

Print date: 04.08.2021 Product code: 11ACI14004L0200 Page 8 of 10

The product has not been tested.

### 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
4306-88-1	2,6-di-tert-butyl-4-nonylphenol	> 6,5

#### 12.4. Mobility in soil

The product has not been tested.

## 12.5. Results of PBT and vPvB assessment

The product has not been tested.

#### 12.6. Other adverse effects

No information available.

#### **Further information**

No special environmental measures are necessary.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

## List of Wastes Code - residues/unused products

130208 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN

CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; other engine, gear and

lubricating oils; hazardous waste

### List of Wastes Code - used product

130208 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN

CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; other engine, gear and

lubricating oils; hazardous waste

### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by

hazardous substances; hazardous waste

# Contaminated packaging

Water (with cleaning agent). Completely emptied packages can be recycled.

# **SECTION 14: Transport information**

# Land transport (ADR/RID)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

### Inland waterways transport (ADN)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.



according to UK REACH Regulation

## TUNFLUID LT220 20I D-GB-F-I-E Kettenöl

Print date: 04.08.2021 Product code: 11ACI14004L0200 Page 9 of 10

Marine transport (IMDG)

14.1. UN number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

Marine pollutant:

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No.

14.6. Special precautions for user

No information available.

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

### **SECTION 15: Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### **EU** regulatory information

2010/75/EU (VOC): No information available. 2004/42/EC (VOC): No information available.

**Additional information** 

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

**National regulatory information** 

Water hazard class (D): 2 - obviously 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): 2,3,9.

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL/DMEL: Derived No Effect Level / Derived Minimal Effect Level

WEL (UK): Workplace Exposure Limits



according to UK REACH Regulation

### TUNFLUID LT220 20I D-GB-F-I-E Kettenöl

Print date: 04.08.2021 Product code: 11ACI14004L0200 Page 10 of 10

TWA (EC): Time-Weighted Average ATE: Acute Toxicity Estimate

STEL (EC) Short Term Exposure Limit

LC50: Lethal Concentration

EC50: half maximal Effective Concentration

ErC50: means EC50 in terms of reduction of growth rate

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

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
 H413 May cause long lasting harmful effects to aquatic life.

EUH208 Contains Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen

dithiophosphate. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

#### **Further Information**

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