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ATF Additive

# Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

#### 1.1 Product identifier

## **ATF Additive**

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

Additives

### **Uses advised against:**

No information available at present.

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

LIQUI MOLY GmbH Jerg-Wieland-Str. 4 89081 Ulm-Lehr

Tel.: (+49) 0731-1420-0 Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

#### 1.4 Emergency telephone number

## Emergency information services / official advisory body:

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## Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

+1 872 5888271 (LMR)

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)
Hazard class Hazard category Hazard statement

Aquatic Chronic 3 H412-Harmful to aquatic life with long lasting effects.

## 2.2 Label elements

## Labeling according to Regulation (EC) 1272/2008 (CLP)

H412-Harmful to aquatic life with long lasting effects.

P273-Avoid release to the environment.

P501-Dispose of contents / container to an approved waste disposal facility.

EUH208-Contains~1, 3, 4-thiadiazole-2 (3H)-thione,~5-(tert-dodecyldithio)-.~May~produce~an~allergic~reaction.

## 2.3 Other hazards



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The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

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

### 3.1 Substances

## n.a. 3.2 Mixtures

Distillates (petroleum), hydrotreated heavy paraffinic			
Registration number (REACH)	01-2119484627-25-XXXX		
Index	649-467-00-8		
EINECS, ELINCS, NLP, REACH-IT List-No.	265-157-1		
CAS	64742-54-7		
content %	25-<50		
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304		

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	
Registration number (REACH)	01-2119474889-13-XXXX
Index	649-483-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	276-738-4
CAS	72623-87-1
content %	10-<25
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304

Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-	
hydroxyphenyl)propionate	
Registration number (REACH)	01-0000015551-76-XXXX
Index	607-530-00-7
EINECS, ELINCS, NLP, REACH-IT List-No.	406-040-9
CAS	125643-61-0
content %	5-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Aquatic Chronic 4, H413

Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs.,	
C10-rich	
Registration number (REACH)	01-2119969520-35-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	800-172-4
CAS	398141-87-2
content %	5-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Aquatic Chronic 2, H411

Distillates (petroleum), hydrotreated light paraffinic			
Registration number (REACH)	01-2119487077-29-XXXX		
Index	649-468-00-3		
EINECS, ELINCS, NLP, REACH-IT List-No.	265-158-7		
CAS	64742-55-8		
content %	3-<10		
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304		

Distillates (petroleum), solvent-dewaxed heavy paraffinic	
Registration number (REACH)	01-2119471299-27-XXXX
Index	649-474-00-6
EINECS, ELINCS, NLP, REACH-IT List-No.	265-169-7
CAS	64742-65-0
content %	1-<3
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304



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2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	
Registration number (REACH)	01-2119510877-33-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	620-540-6
CAS	1218787-32-6
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Acute Tox. 4, H302	
	Skin Corr. 1C, H314
	Eye Dam. 1, H318
	Aquatic Acute 1, H400 (M=10)
	Aquatic Chronic 1, H410 (M=1)

1,3,4-thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)-	
Registration number (REACH)	01-2120761104-64-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	813-543-0
CAS	73984-93-7
content %	0,01-<0,25
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Sens. 1B, H317
	Aquatic Chronic 3, H412

3-((C9-11-iso, C10-rich)alkyloxy)propan-1-amine		
Registration number (REACH)	01-2119974116-35-XXXX	
Index		
EINECS, ELINCS, NLP, REACH-IT List-No.	939-485-7	
CAS	218141-16-3	
content %	0,01-<0,25	
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302	
	Skin Corr. 1B, H314	
	Eye Dam. 1, H318	
	Aquatic Acute 1, H400 (M=100)	
	Aquatic Chronic 1, H410 (M=1)	

Methyl-1H-benzotriazole	
Registration number (REACH)	01-2119979081-35-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	249-596-6
CAS	29385-43-1
content %	0,01-<0,25
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	Repr. 2, H361d
	Aquatic Chronic 2, H411

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

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

## 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.



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#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

Danger of aspiration.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

The following may occur:

Drying of the skin.

Irritation of the skin.

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

Symptomatic treatment.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media Suitable extinguishing media

CO<sub>2</sub>

Foam

Dry extinguisher

Water jet spray

#### Unsuitable extinguishing media

High volume water jet

## 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of sulphur

Oxides of phosphorus

Toxic gases

Flammable vapour/air mixtures

#### 5.3 Advice for firefighters

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

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

## 6.1 Personal precautions, protective equipment and emergency procedures

### 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

## 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

## **6.2 Environmental precautions**

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.



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If accidental entry into drainage system occurs, inform responsible authorities.

## 6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent) and dispose of according to Section 13.

#### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

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

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

## 7.1 Precautions for safe handling

## 7.1.1 General recommendations

Ensure good ventilation.

Avoid contact with eyes or skin.

Do not carry cleaning cloths soaked in product in trouser pockets.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

## 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Store in a dry place.

## 7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

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

## 8.1 Control parameters

Chemical Name Oil mist, minera		
WEL-TWA: 5 mg/m3 (Mineral oil, excluding metal	WEL-STEL:	
working fluids, ACGIH)		
Monitoring procedures: -	Draeger - Oil Mist 1/a (67 33 031)	
BMGV:	Other information:	

Distillates (petroleum), hydrotreated heavy paraffinic						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - oral (animal feed)		PNEC	9,33	mg/kg	
Consumer	Human - inhalation	Long term, local effects	DNEL	1,2	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,74	mg/kg	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5,58	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,97	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2,73	mg/m3	



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Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based						
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Human - oral		PNEC	9,33	mg/kg feed	
Consumer	Human - inhalation	Long term, local effects	DNEL	1,2	mg/m3	24h
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5,4	mg/m3	8h

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - sewage treatment plant		PNEC	10	mg/l	
	Environment - sediment, freshwater		PNEC	0,37	mg/kg dw	
	Environment - sediment, marine		PNEC	0,037	mg/kg dw	
	Environment - soil		PNEC	10	mg/kg dw	
	Environment - freshwater		PNEC	0,018	mg/l	
	Environment - marine		PNEC	0,002	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,018	mg/l	
	Environment - oral (animal feed)		PNEC	41,33	mg/kg feed	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,74	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,83	mg/kg bw/d	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,93	mg/kg bw/d	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	1,67	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	6,6	mg/m3	

Thiophene, tetrahydro-, 1,1-	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich						
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note	
	Environmental						
	compartment						
	Environment - freshwater		PNEC	2,4	μg/l		
	Environment - marine		PNEC	0,33	μg/l		
	Environment - sewage		PNEC	100	mg/l		
	treatment plant						
	Environment - water,		PNEC	24	μg/l		
	sporadic (intermittent)						
	release						

Distillates (petroleum), hydrotreated light paraffinic								
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note		
	Environmental							
	compartment							
	Environment - oral (animal feed)		PNEC	9,33	mg/kg feed			
Consumer	Human - inhalation	Long term, local effects	DNEL	1,19	mg/m3			
Consumer	Human - oral	Long term, systemic	DNEL	0,74	mg/kg			
		effects			bw/day			
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5,6	mg/m3			
Workers / employees	Human - dermal	Long term, systemic	DNEL	0,97	mg/kg			
		effects			bw/day			



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Workers / employees	Human - inhalation	Long term, systemic	DNEL	2.7	ma/m3	
Workers / Chiployees	Human imalation	Long term, systemic	DIVLL	<b>Z</b> , <b>'</b>	1119/1110	
		effects				
1		CHECIO		I	1	1

Distillates (petroleum), solvent-dewaxed heavy paraffinic								
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note		
	Environment - oral (animal feed)		PNEC	9,33	mg/kg feed			
Consumer	Human - inhalation	Long term, local effects	DNEL	1,19	mg/m3			
Consumer	Human - oral	Long term, systemic effects	DNEL	0,74	mg/kg bw/d			
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5,58	mg/m3			
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2,73	mg/m3			
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,97	mg/kg bw/d			

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol								
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note		
	Environment - freshwater		PNEC	0,21	μg/l			
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,21	mg/kg bw/d			
Consumer	Human - oral	Long term, systemic effects	DNEL	0,21	mg/kg bw/d			
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,3	mg/kg bw/d			

1,3,4-thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)-							
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note	
	Environment - freshwater		PNEC	0,04	mg/l		
Consumer	Human - oral	Long term, systemic effects	DNEL	0,42	mg/kg bw/day		
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,42	mg/kg bw/day		
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,83	mg/kg bw/day		

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	0,84	μg/l	
	Environment - marine		PNEC	0,084	µg/l	
	Environment - sediment,		PNEC	3,19	mg/kg dw	
	freshwater					
	Environment - sediment,		PNEC	0,32	mg/kg dw	
	marine					
	Environment - soil		PNEC	1,59	mg/kg dw	
	Environment - sewage		PNEC	1,3	mg/l	
	treatment plant					
	Environment - sporadic		PNEC	0,827	μg/l	
	(intermittent) release				-	
Consumer	Human - inhalation	Long term, systemic	DNEL	0,74	mg/m3	
		effects			_	



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Consumer	Human - oral	Long term, systemic effects	DNEL	0,25	mg/kg bw/day
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	4,9	mg/m3

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	0,008	mg/l	
	Environment - marine		PNEC	20	μg/l	
	Environment - sediment, freshwater		PNEC	0,117	mg/kg dw	
	Environment - sediment, marine		PNEC	0,292	mg/kg dw	
	Environment - soil		PNEC	0,0187	mg/kg dw	
	Environment - sewage treatment plant		PNEC	39,4	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,086	mg/l	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,01	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,01	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,35	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	21,2	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,3	mg/kg bw/day	

Distillates (petroleum), hydrotreated heavy paraffinic							
ı	Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
		Environmental					
		compartment					
ı		Environment - oral (animal		PNEC	9,33	mg/kg feed	
ı		feed)					

Distillates (petroleum), hydrotreated heavy paraffinic									
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note			
	Environmental								
	compartment								
	Environment - oral (animal		PNEC	9,33	mg/kg feed				
	feed)								

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

#### 8.2 Exposure controls

<sup>(8) =</sup> Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

<sup>(8) =</sup> Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

<sup>\*\* =</sup> The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

<sup>(13) =</sup> The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).



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## 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

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

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles (EN 166) with side protection, with danger of splashes.

Skin protection - Hand protection:

Protective nitrile gloves (EN ISO 374).

Permeation time (penetration time) in minutes:

> 480

Minimum layer thickness in mm:

0,4

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

If OES or MEL is exceeded.

Filter A P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

## 8.2.3 Environmental exposure controls

No information available at present.

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

## 9.1 Information on basic physical and chemical properties

Physical state: Liquid Colour: Brown

Odour: Characteristic

Melting point/freezing point:

There is no information available on this parameter.

Boiling point or initial boiling point and boiling range:

There is no information available on this parameter.

Flammability: Flammable



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Lower explosion limit: Upper explosion limit:

Upper explosion limit Flash point:

Auto-ignition temperature:

Decomposition temperature:

pH:

Kinematic viscosity: Kinematic viscosity:

Solubility:

Partition coefficient n-octanol/water (log value):

Vapour pressure:

Density and/or relative density:

Relative vapour density:

Particle characteristics:

9.2 Other information

Explosives:
Oxidising liquids:

There is no information available on this parameter. There is no information available on this parameter.

>100 °C

There is no information available on this parameter. There is no information available on this parameter.

Mixture is non-soluble (in water).

166 mm2/s (40°C) 26 mm2/s (100°C)

Insoluble

Does not apply to mixtures.

There is no information available on this parameter.

0,888 g/ml

There is no information available on this parameter.

Does not apply to liquids.

There is no information available on this parameter. There is no information available on this parameter.

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

The product has not been tested.

### 10.2 Chemical stability

Stable with proper storage and handling.

## 10.3 Possibility of hazardous reactions

Hazardous reactions will not occur during storage and handling under normal conditions.

## 10.4 Conditions to avoid

Open flame, ignition sources

## 10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

#### 10.6 Hazardous decomposition products

No decomposition when used as directed.

## **SECTION 11: Toxicological information**

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

Possibly more information on health effects, see Section 2.1 (classification).

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	-					n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						Based on
sensitisation:						available data,
						the classification
						criteria are not
						met.,
						Classification
						based on
						toxicological
						analyses.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-RE):						



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Aspiration hazard:			n.d.a.
Symptoms:			n.d.a.

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 420 (Acute Oral	Analogous
<i>,,</i> ,					toxicity - Fixe Dose	conclusion
					Procedure)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute	Analogous
Acute toxicity, by definial route.	LDS0	20000	mg/kg	Rabbit	Dermal Toxicity)	conclusion
Acute toxicity by inhelations	LC50	>5,53	ma/I/4h	Rat	OECD 403 (Acute	Aerosol,
Acute toxicity, by inhalation:	LC50	>5,53	mg/l/4h	Rat		,
					Inhalation Toxicity)	Analogous
						conclusion
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant,
					Dermal	Analogous
					Irritation/Corrosion)	conclusion
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant,
, 0					Irritation/Corrosion)	Analogous
					madion, corrector)	conclusion
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
				Guiriea pig		
sensitisation:					Sensitisation)	contact),
						Analogous
						conclusion
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative,
				typhimurium	Reverse Mutation Test)	Analogous
				71	,	conclusion
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative,
Germ cen matagemeny.					Mammalian	Analogous
					Chromosome	conclusion
					Aberration Test)	Chinese hamste
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative,
					Mammalian Cell Gene	Analogous
					Mutation Test)	conclusion
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian	Negative,
Com con management,					Erythrocyte	Analogous
					Micronucleus Test)	conclusion
Carainaganiaituu				Mauro	OECD 451	
Carcinogenicity:				Mouse		Negative,
					(Carcinogenicity Studies)	Analogous
						conclusion 78
						weeks, dermal
Reproductive toxicity				Rat	OECD 414 (Prenatal	Negative,
(Developmental toxicity):					Developmental Toxicity	Analogous
` ' '					Study)	conclusion
					0.00)	dermal
Reproductive toxicity:				Rat	OECD 421	
Reproductive toxicity.				Nai		Negative,
					(Reproduction/Developm	Analogous
					ental Toxicity Screening	conclusion oral
					Test)	
Aspiration hazard:						Asp. Tox. 1
Specific target organ toxicity -	LOAEL	125	mg/kg	Rat	OECD 408 (Repeated	Analogous
repeated exposure (STOT-RE),					Dose 90-Day Oral	conclusion
oral:					Toxicity Study in	
					Rodents)	
Symptoms:	1				1 todontoj	gastrointestinal
Cymptoms.						disturbances.
	L	100		<u> </u>		diarrhoea
Specific target organ toxicity -	NOAEL	1000	mg/kg	Rabbit	OECD 410 (Repeated	Analogous
repeated exposure (STOT-RE),					Dose Dermal Toxicity -	conclusion
dermal:					90-Day)	
Specific target organ toxicity -	NOAEL	0,22	mg/l	Rat		Dust, Mist,
repeated exposure (STOT-RE),	NOALL	0,22	1119/1	Trac		Analogous
inhalat.:						conclusion 4
	1	1	1	1	1	weeks



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Lubricating oils (petroleum), Ca				0	To at weath and	Nata
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5,53	mg/l/4h	Rat	OECD 403 (Acute	Aerosol,
		, 2,22	<b>g</b>		Inhalation Toxicity)	Analogous conclusion
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant,
OKIT COTTOSION/IIIItation.				Rabbit	Dermal	Analogous
					Irritation/Corrosion)	conclusion
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
Serious eye damage/imation.				Rabbit	Irritation/Corrosion)	Not iiiitaiit
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact
sensitisation:				Guiriea pig	Sensitisation)	140 (SKIII COIIIACI
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative,
Germ cen matagementy.				typhimurium	Reverse Mutation Test)	Analogous
				тургііншіші	Reverse Mutation Test)	conclusion
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative,
Germ cen mutagementy.					Mammalian	Analogous
					Chromosome	conclusion
					Aberration Test)	Chinese hamste
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative,
Germ cell mutagemicity.				Mouse	Mammalian Cell Gene	Analogous
					Mutation Test)	conclusion
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian	Negative,
Germ cell mutagenicity.				wouse		
					Erythrocyte Micronucleus Test)	Analogous conclusion
Caraina a aniaita a						
Carcinogenicity:					OECD 453 (Combined Chronic	Negative
					Toxicity/Carcinogenicity Studies)	
Carcinogenicity:				Mouse	OECD 451	Negative,
					(Carcinogenicity Studies)	Analogous
						conclusion
Reproductive toxicity:					OECD 414 (Prenatal	Negative
					Developmental Toxicity	
					Study)	
Reproductive toxicity:				Rat	OECD 421	Negative,
					(Reproduction/Developm	Analogous
					ental Toxicity Screening	conclusion
					Test)	
Specific target organ toxicity -					OECD 453 (Combined	Negative
repeated exposure (STOT-RE):					Chronic	
					Toxicity/Carcinogenicity	
					Studies)	
Specific target organ toxicity -					OECD 408 (Repeated	Negative
repeated exposure (STOT-RE):					Dose 90-Day Oral	
					Toxicity Study in	
					Rodents)	
Specific target organ toxicity -					OECD 411 (Subchronic	Negative
repeated exposure (STOT-RE):					Dermal Toxicity - 90-day	
		1			Study)	
Specific target organ toxicity -					OECD 412 (Subacute	Negative
repeated exposure (STOT-RE):					Inhalation Toxicity - 28- Day Study)	
Aspiration hazard:					Day Gludy)	Asp. Tox. 1
Specific target organ toxicity -	NOAEL	1000	mg/kg	Rabbit	OECD 410 (Repeated	Analogous
repeated exposure (STOT-RE),			bw/d		Dose Dermal Toxicity -	conclusion

Reaction mass of isomers of: 0	7-9-alkyl 3-(3,	5-di-tert-butyl-4-l	nydroxyphen	yl)propionate		
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes



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Acute toxicity, by oral route:	LD50	> 2000	mg/kg	Rat	OECD 401 (Acute Oral	
					Toxicity)	
Acute toxicity, by dermal route:	LD50	> 2000	mg/kg	Rat	OECD 402 (Acute	
					Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact)
sensitisation:					Sensitisation)	
Germ cell mutagenicity:					OECD 473 (In Vitro	NegativeChinese
					Mammalian	hamster
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Germ cell mutagenicity:					OECD 474 (Mammalian	NegativeChinese
					Erythrocyte	hamster
					Micronucleus Test)	
Reproductive toxicity:	NOAEL	150-600	mg/kg	Mouse	OECD 415 (One-	
			bw/d		Generation	
					Reproduction Toxicity	
					Study)	
Carcinogenicity:				Rat		Negative,
						Analogous
						conclusion
Aspiration hazard:						Negative

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>10000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit		
Skin corrosion/irritation:				Rabbit		Not irritant
Serious eye damage/irritation:				Rabbit		Not irritant
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact)
sensitisation:					Sensitisation)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	•
Germ cell mutagenicity:				Human being	OECD 473 (In Vitro	Negative
					Mammalian (	· ·
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	· ·
					Mutation Test)	
Reproductive toxicity:				Rat	OECD 421	Negative
					(Reproduction/Developm	•
					ental Toxicity Screening	
					Test)	
Symptoms:					,	headaches,
						dizziness,
						nausea, mental
						confusion,
						drowsiness,
						drowsiness
Specific target organ toxicity -	NOAEL	100	mg/kg	Rat	OECD 407 (Repeated	
repeated exposure (STOT-RE),					Dose 28-Day Oral	
oral:					Toxicity Study in	
					Rodents)	
Specific target organ toxicity -	NOAEL	500	mg/kg	Rat	OECD 408 (Repeated	
repeated exposure (STOT-RE),			bw/d		Dose 90-Day Oral	
oral:					Toxicity Study in	
					Rodents)	



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Distillates (petroleum), hydrotre	eated light pa	araffinic				
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	Analogous conclusion
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute	Analogous
Acute toxicity, by definal route.	LD30	>3000	ilig/kg	Nabbit		conclusion
At ttt	1.050	5.50		D-4	Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5,53	mg/l/4h	Rat	OECD 403 (Acute	Aerosol,
					Inhalation Toxicity)	Analogous
						conclusion
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant,
					Dermal	Analogous
					Irritation/Corrosion)	conclusion
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant,
, ,					Irritation/Corrosion)	Analogous
					,	conclusion
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:				Janioa pig	Sensitisation)	contact),
ocholiodion.					Seriolasation)	Analogous
						conclusion
Course call manufacturistics				Colmonalla	OFCD 474 (Depterial	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative,
				typhimurium	Reverse Mutation Test)	Analogous
						conclusion
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro	Negative,
					Mammalian	Analogous
					Chromosome	conclusionChines
					Aberration Test)	e hamster
Reproductive toxicity				Rat	OECD 414 (Prenatal	Negative,
(Developmental toxicity):					Developmental Toxicity	Analogous
` '					Study)	conclusion
Carcinogenicity:				Mouse	OECD 451	Negative,
Caroniogornony.					(Carcinogenicity Studies)	Analogous
					(Garoniogernoity Stadies)	conclusionderma
Reproductive toxicity:	NOAEL	1000	mg/kg	Rat	OECD 421	Analogous
reproductive toxicity.	NOALL	1000	bw/d	ixat	(Reproduction/Developm	conclusionderma
			DW/G		ental Toxicity Screening	Conclusionaerma
Assissting beauty					Test)	V
Aspiration hazard:	110151	40=		<b>—</b>	0505 400 (B	Yes
Specific target organ toxicity -	NOAEL	125	mg/kg	Rat	OECD 408 (Repeated	Analogous
repeated exposure (STOT-RE),			bw/d		Dose 90-Day Oral	conclusion
oral:					Toxicity Study in	
					Rodents)	
Specific target organ toxicity -	NOAEL	<30	mg/kg	Rat	OECD 411 (Subchronic	Analogous
repeated exposure (STOT-RE),			bw/d		Dermal Toxicity - 90-day	conclusion
dermal:					Study)	
Specific target organ toxicity -	NOAEL	1000	mg/kg	Rabbit	OECD 410 (Repeated	Analogous
repeated exposure (STOT-RE),		1.2.0	פיי שיי		Dose Dermal Toxicity -	conclusion
dermal:					90-Day)	20
Specific target organ toxicity -	NOAEL	0.05	mg/l	Rat	OECD 412 (Subacute	Aerosol,
repeated exposure (STOT-RE),	NOALL	0,00	ilig/i	INGL	Inhalation Toxicity - 28-	•
						Analogous
inhalat.:	NOAEL	0.45	- 4	+ B /	Day Study)	conclusion
Specific target organ toxicity -	NOAEL	0,15	mg/l	Rat		Aerosol,
repeated exposure (STOT-RE),						Analogous
inhalat.:						conclusion13
				1		weeks

Distillates (petroleum), solvent-dewaxed heavy paraffinic							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral		
					Toxicity)		
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute		
					Dermal Toxicity)		
Acute toxicity, by inhalation:	LD50	>5,53	mg/l/4h	Rat	OECD 403 (Acute	Aerosol	
					Inhalation Toxicity)		



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Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant,
CKIT COTTCOIOT/TITICATOTI.				Rabbit	Dermal	Analogous
					Irritation/Corrosion)	conclusion
Cariatta atta damaga/irritation				Rabbit	OECD 405 (Acute Eye	Not irritant.
Serious eye damage/irritation:				Rabbit	UECD 405 (Acute Eye	
					Irritation/Corrosion)	Analogous
				<u> </u>		conclusion
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact),
						Analogous
						conclusion
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian	Negative,
<b>.</b>					Erythrocyte `	Analogous
					Micronucleus Test)	conclusion
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro	Negative,
Com con matagernony.				Iviammanam	Mammalian	Analogous
					Chromosome	conclusion
				<u> </u>	Aberration Test)	Chinese hamster
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative,
				typhimurium	Reverse Mutation Test)	Analogous
						conclusion
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative,
ũ,					Mammalian Cell Gene	Analogous
					Mutation Test)	conclusion
Carcinogenicity:				Mouse	OECD 451	Negative,
Caroniogernoity.				Wiodoc	(Carcinogenicity Studies)	Analogous
					(Carcinogenicity Studies)	conclusion 78
<u> </u>				<b> </b>	0505 444 (5 4 4	weeks, dermal
Reproductive toxicity				Rat	OECD 414 (Prenatal	Negative,
(Developmental toxicity):					Developmental Toxicity	Analogous
					Study)	conclusion
						dermal
Carcinogenicity:				Mouse		Female, Negative
Reproductive toxicity:				Rat		Negative
Reproductive toxicity (Effects				Rat	OECD 421	Negative,
on fertility):					(Reproduction/Developm	Analogous
,,,					ental Toxicity Screening	conclusion oral,
					Test)	dermal
Charific target argen tavisity	NOAEL	~1000	ma/ka	Rabbit	OECD 410 (Repeated	Analogous
Specific target organ toxicity -	NOAEL	~1000	mg/kg	Rabbit		
repeated exposure (STOT-RE),			bw/d		Dose Dermal Toxicity -	conclusion
dermal:					90-Day)	
Aspiration hazard:						Yes
Symptoms:						mucous
						membrane
						irritation,
						dizziness,
						nausea
Specific target organ toxicity -	NOAEL	30	mg/kg/d	Rat	OECD 411 (Subchronic	Α Ι
repeated exposure (STOT-RE),	NOALL	30	mg/kg/u	Nat	Dermal Toxicity - 90-day	Analogous conclusion
						COLICIUSION
dermal:	NOAEL	0.00	/n	Det	Study)	Annaal
Specific target organ toxicity -	NOAEL	0,22	mg/l	Rat		Aerosol,
repeated exposure (STOT-RE),						Analogous
inhalat.:						conclusion 4
						weeks
Specific target organ toxicity -	NOAEL	0,15	mg/l	Rat		Aerosol,
repeated exposure (STOT-RE),						Analogous
inhalat.:						conclusion 13
						weeks
	1	1				MACCUO

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1500	mg/kg	Rat	OECD 425 (Acute Oral Toxicity - Up-and-Down Procedure)	



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Skin corrosion/irritation:	Rabbit	OECD 404 (Acute	Skin Corr. 1C
		Dermal	
		Irritation/Corrosion)	
Respiratory or skin	Guinea pig	OECD 406 (Skin	No (skin
sensitisation:		Sensitisation)	contact),
			Analogous
			conclusion
Germ cell mutagenicity:	Mouse	OECD 476 (In Vitro	Negative,
		Mammalian Cell Gene	Analogous
		Mutation Test)	conclusion
Germ cell mutagenicity:	Human being	OECD 473 (In Vitro	Negative,
		Mammalian `	Analogous
		Chromosome	conclusion
		Aberration Test)	

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	Analogous conclusion
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative, Analogous conclusion
Reproductive toxicity:	NOEL	1000	mg/kg bw/d	Rat	OECD 421 (Reproduction/Developm ental Toxicity Screening Test)	Negative, Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	200	mg/kg	Rat	OECD 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)	Analogous conclusion

3-((C9-11-iso, C10-rich)alkylo	xy)propan-1-an	nine				
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	300-2000	mg/kg	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	Female
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Skin Corr. 1B
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative

Methyl-1H-benzotriazole						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	720	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	> 2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	Analogous conclusion



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Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
-					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not sensitizising
sensitisation:					Sensitisation)	
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian	Negative
					Erythrocyte	
					Micronucleus Test)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	_
Reproductive toxicity				Rat	OECD 421	Negative,
(Developmental toxicity):					(Reproduction/Developm	Analogous
					ental Toxicity Screening	conclusion
					Test)	
Reproductive toxicity	LOAEL	30	mg/kg	Rat	OECD 414 (Prenatal	Positiveoral
(Developmental toxicity):			bw/d		Developmental Toxicity	
					Study)	
Reproductive toxicity (Effects				Rat	OECD 421	Negative,
on fertility):					(Reproduction/Developm	Analogous
					ental Toxicity Screening	conclusion
					Test)	
Specific target organ toxicity -	NOAEL	150	mg/kg	Rat	OECD 407 (Repeated	
repeated exposure (STOT-RE),					Dose 28-Day Oral	
oral:					Toxicity Study in	
					Rodents)	

## 11.2. Information on other hazards

ATF Additive Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting properties:	•					Does not apply to mixtures.
Other information:						No other relevant information available on adverse effects on health.

## **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).

ATF Additive				,	,		
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and							Mechanical
degradability:							precipitation
							possible.
12.3. Bioaccumulative							n.d.a.
potential:							
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT							n.d.a.
and vPvB assessment							
12.6. Endocrine							Does not apply
disrupting properties:							to mixtures.



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12.7. Other adverse effects:			No information available on
ellects.			other adverse
			effects on the
			environment.

Distillates (petroleum), h	ydrotreated hea	vy paraffii	nic				
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LL50	96h	>100	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion
12.1. Toxicity to fish:	NOEC/NOEL	28d	>1000	mg/l	Oncorhynchus mykiss	QSÁR	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	10	mg/l	Daphnia magna	QSAR	Analogous conclusion
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	Analogous conclusion
12.1. Toxicity to algae:	EC50	48h	>100	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	>=100	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion
12.2. Persistence and degradability:		28d	31	%	activated sludge	OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Not readily biodegradable, Analogous conclusion
12.2. Persistence and degradability:		28d	6	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Not readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		3,9-6			,	High
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Other information:	AOX		0	%			

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
12.1. Toxicity to fish:	NOEC/NOEL	96h	>=100	mg/l	Pimephales	OECD 203 (Fish,				
					promelas	Acute Toxicity				
						Test)				
12.1. Toxicity to fish:	LL50	96h	> 100	mg/l	Pimephales	OECD 203 (Fish,				
					promelas	Acute Toxicity				
						Test)				
12.1. Toxicity to daphnia:	EL50	48h	>10000	mg/l	Daphnia magna	OECD 202				
						(Daphnia sp.				
						Acute				
						Immobilisation				
						Test)				
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	10	mg/l	Daphnia magna	OECD 211				
						(Daphnia magna				
						Reproduction Test)				
12.1. Toxicity to algae:	NOEC/NOEL	72h	>=100	mg/l	Pseudokirchneriell	OECD 201 (Alga,				
					a subcapitata	Growth Inhibition				
						Test)				



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12.1. Toxicity to algae:	EL50	48h	>100	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
					·	Test)	
12.2. Persistence and						OECD 301 B	Not readily
degradability:						(Ready	biodegradable
3 ,						Biodegradability -	3
						Co2 Evolution	
						Test)	
12.2. Persistence and		28d	31	%	activated sludge	OECD 301 F	Analogous
degradability:						(Ready	conclusion
						Biodegradability -	
						Manometric	
						Respirometry Test)	
12.3. Bioaccumulative	Log Kow		>6			. ,	A notable
potential:							biological
•							accumulation
							potential has to
							be expected
							(LogPow > 3).
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
Toxicity to bacteria:	NOEC/NOEL	10min	> 1,93	mg/l	activated sludge		DIN 38412

Reaction mass of isome				hydroxyphe			
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>74	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	35d	0,001	mg/l	Brachydanio rerio	OECD 210 (Fish, Early-Life Stage Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	>=1	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	Water toxicology is above the water-solubility value.
12.1. Toxicity to algae:	EC50	72h	>3	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	2-4	%	activated sludge	OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Not readily biodegradable
12.2. Persistence and degradability:						,	Mechanical precipitation possible.
12.3. Bioaccumulative potential:	Log Pow		9,2				Possible@20°C
12.3. Bioaccumulative potential:	BCF	35d	260			OECD 305 (Bioconcentration - Flow-Through Fish Test)	Concentration in organisms possible.Oncorhy nchus mykiss
12.4. Mobility in soil:						,	Adsorption in ground., To be expected



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12.4. Mobility in soil:	Koc		7673- 18432			OECD 106 (Adsorption/Desor ption Using a	
						Batch Equilibrium Method)	
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	IC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other organisms:	NOEC/NOEL	28d	31,6	mg/kg		OECD 217 (Soil Microorganisms - Carbon Transformation Test)	
Other information:	EC50	19d	>100	mg/kg		OECD 208 (Terrestrial Plants, Growth Test)	Brassica rapa
Toxicity to annelids:	EC50	14d	>1000	mg/kg	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	artificial soil
Toxicity to annelids:	NOEC/NOEL	56d	250	mg/kg	Eisenia foetida	OECD 222 (Earthworm Reproduction Test (Eisenia fetida/Eisenia andrei))	artificial soil
Water solubility:			0,5	μg/l			Insoluble

Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich											
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.1. Toxicity to fish:	LC50	96h	2,4	mg/l	Oncorhynchus	OECD 203 (Fish,	Analogous				
					mykiss	Acute Toxicity Test)	conclusion				
12.1. Toxicity to daphnia:	EC50	48h	4,6	mg/l	Daphnia magna	OECD 202	Analogous				
						(Daphnia sp.	conclusion				
						Acute					
						Immobilisation					
						Test)					
12.1. Toxicity to algae:	EC50	72h	63	mg/l	Desmodesmus	OECD 201 (Alga,	Analogous				
					subspicatus	Growth Inhibition	conclusion				
					<u> </u>	Test)	<u> </u>				
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,313	mg/l	Desmodesmus	OECD 201 (Alga,	Analogous				
					subspicatus	Growth Inhibition	conclusion				
10.0 D : /		00.1	0.0	0/		Test)	NI ( P)				
12.2. Persistence and		28d	9,6	%		OECD 301 B	Not readily				
degradability:						(Ready	biodegradable,				
						Biodegradability -	Analogous				
						Co2 Evolution Test)	conclusion				
12.3. Bioaccumulative potential:	BCF		27,54								
12.3. Bioaccumulative	Log Kow		4,1			OECD 117					
potential:						(Partition					
						Coefficient (n-					
						octanol/water) -					
						HPLC method)					



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Toxicity to bac	cteria: EC50	3h	>10000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium	Analogous conclusion
						Oxidation))	

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	28d	>1000	mg/l	Oncorhynchus mykiss	QSAR	
12.1. Toxicity to fish:	LL50	96h	>100	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion
12.1. Toxicity to fish:	NOEC/NOEL	14d	1000	mg/l	Oncorhynchus mykiss	QSAR	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	10	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	Analogous conclusion
12.1. Toxicity to daphnia:	EL50	48h	> 10000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	Analogous conclusion
12.1. Toxicity to algae:	NOEC/NOEL	72h	>=100	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Pseudokirchneriell a subcapitata	OEĆD 201 (Alga, Growth Inhibition Test)	Analogous conclusion
12.2. Persistence and degradability:		28d	31	%	activated sludge	OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Not readily biodegradable, Analogous conclusion
12.3. Bioaccumulative potential:	Log Pow		>6				@20°C
12.3. Bioaccumulative potential:	_						Not to be expected
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Distillates (petroleum), solvent-dewaxed heavy paraffinic											
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Salmo gairdneri						
12.1. Toxicity to fish:	LC50	96h	>5000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)					
12.1. Toxicity to fish:	NOEC/NOEL	21d	1000	mg/l	Oncorhynchus mykiss	QSAR					
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion				
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	10	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	Analogous conclusion				
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	Analogous conclusion				



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12.1. Toxicity to algae:	EC50	96h	>1000	mg/l	Scenedesmus subspicatus		
12.2. Persistence and degradability:		28d	6	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Analogous conclusion
12.2. Persistence and degradability:		28d	31	%	activated sludge	OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Not readily biodegradable (Analogous conclusion)
12.3. Bioaccumulative potential:	Log Pow		>3				Low
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC20	6h	>1000	mg/l	Pseudomonas fluorescens		

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,1	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion
12.1. Toxicity to daphnia:	EC50	48h	0,043	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	Analogous conclusion
12.1. Toxicity to daphnia:	EC10	21d	0,0107	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	Analogous conclusion
12.1. Toxicity to algae:	EC50	72h	0,0538	mg/l	Pseudokirchneriell a subcapitata	IUCLID Chem. Data Sheet (ESIS)	Analogous conclusion
12.2. Persistence and degradability:		28d	63	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Readily biodegradable, Analogous conclusion
12.2. Persistence and degradability:		28d	75	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable, Analogous conclusion
12.3. Bioaccumulative potential:	Log Pow		3,6				Low
12.3. Bioaccumulative potential:	BCF		110,2				calculated
Toxicity to bacteria:	EC50	3h	167	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	Analogous conclusion

1,3,4-thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)-												
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes					
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion					



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12.1. Toxicity to daphnia:	EL50	48h	41	mg/l	Daphnia magna	OECD 202	Analogous
						(Daphnia sp.	conclusion
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	EL50	72h	>100	mg/l	Pseudokirchneriell	OECD 201 (Alga,	Analogous
					a subcapitata	Growth Inhibition	conclusion
						Test)	
12.2. Persistence and		28d	0	%	activated sludge	OECD 301 C	Not readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Modified MITI	
						Test (I))	
12.3. Bioaccumulative potential:	Log Pow		6,67				High
12.5. Results of PBT							No PBT
and vPvB assessment							substance
Toxicity to bacteria:	EC50	16h	>8000	mg/l	Pseudomonas	DIN 38412 T.8	Analogous
-					putida		conclusion

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	2,14	mg/l	Brachydanio rerio	OECD 203 (Fish,	Analogous
•						Acute Toxicity	conclusion
						Test)	
12.1. Toxicity to daphnia:	EC50	21d	1,09	mg/l	Daphnia magna	OECD 211	Analogous
						(Daphnia magna	conclusion
						Reproduction Test)	
12.1. Toxicity to daphnia:	EC10	21d	0,738	mg/l	Daphnia magna	OECD 211	Analogous
						(Daphnia magna	conclusion
						Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	0,082	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and		28d	68	%	activated sludge	OECD 301 D	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Closed Bottle Test)	
Toxicity to bacteria:	EC50	3h	23,6	mg/l	activated sludge	OECD 209	
						(Activated Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium	
						Oxidation))	

Methyl-1H-benzotriazole	Methyl-1H-benzotriazole										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.1. Toxicity to fish:	LC50	96h	180	mg/l	Brachydanio rerio	OECD 203 (Fish,	Analogous				
						Acute Toxicity	conclusion				
						Test)					
12.1. Toxicity to daphnia:	EC50	48h	8,58	mg/l		OECD 202	Analogous				
						(Daphnia sp.	conclusion				
						Acute					
						Immobilisation					
						Test)					
12.1. Toxicity to daphnia:	EC10	21d	0,4	mg/l		OECD 211	Analogous				
						(Daphnia magna	conclusion				
						Reproduction Test)					
12.1. Toxicity to daphnia:	LC50	2d	55	mg/l	Acartia tonsa	ISO 14669					
12.1. Toxicity to daphnia:	EC10	21d	5,93	mg/l	Daphnia magna	OECD 211					
•						(Daphnia magna					
						Reproduction Test)					



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				-			
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	18,4	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	EC50	21d	> 37,6	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	30	mg/l	Skeletonema costatum	ISO 10253	
12.1. Toxicity to algae:	IC50	72h	75	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion
12.1. Toxicity to algae:	EC50	72h	53	mg/l	Skeletonema costatum	ISO 10253	
12.2. Persistence and degradability:		28d	4	%	activated sludge	Regulation (EC) 440/2008 C.4-D (DETERMINATIO N OF 'READY' BIODEGRAD MANOMETRIC RESPIROMETRY TEST)	Not readily biodegradable
12.3. Bioaccumulative potential:	Log Kow		1,079- 1,083			OECD 117 (Partition Coefficient (n- octanol/water) - HPLC method)	Low
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	24h	1060	mg/l	activated sludge	ISO 8192	Analogous conclusion

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

## For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of. EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

### For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Uncontaminated packaging can be recycled.

## **SECTION 14: Transport information**

## **General statements**



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Transport by road/by rail (ADR/RID)

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):Not applicable14.4. Packing group:Not applicable14.5. Environmental hazards:Not applicableTunnel restriction code:Not applicableClassification code:Not applicableLQ:Not applicableTransport category:Not applicable

Transport by sea (IMDG-code)

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):Not applicable14.4. Packing group:Not applicable14.5. Environmental hazards:Not applicableMarine Pollutant:Not applicableEmS:Not applicable

Transport by air (IATA)

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):Not applicable14.4. Packing group:Not applicable14.5. Environmental hazards:Not applicable

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

Non-dangerous material according to Transport Regulations.

## **SECTION 15: Regulatory information**

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

Observe restrictions:

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): 7,5 %

National requirements/regulations on safety and health protection must be applied when using work equipment.

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

#### **SECTION 16: Other information**

Revised sections:

3, 8, 11, 12

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

## Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation	Evaluation method used
(EC) No. 1272/2008 (CLP)	
Aquatic Chronic 3, H412	Classification according to calculation procedure.



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The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H314 Causes severe skin burns and eye damage.

H361d Suspected of damaging the unborn child.

H317 May cause an allergic skin reaction.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Asp. Tox. — Aspiration hazard

Acute Tox. — Acute toxicity - oral

Skin Corr. — Skin corrosion

Eye Dam. — Serious eye damage

Aquatic Acute — Hazardous to the aquatic environment - acute

Skin Sens. — Skin sensitization

Repr. — Reproductive toxicity

## Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

## Any abbreviations and acronyms used in this document:

according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the

International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BSEF The International Bromine Council

body weight bw

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level Dissolved organic carbon DOC

dw dry weight

for example (abbreviation of Latin 'exempli gratia'), for instance e.g.



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ATF Additive

EbCx, EyCx, EbLx (x = 10, 50)Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

**European Community** ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

European Economic Community

**EINECS** European Inventory of Existing Commercial Chemical Substances

**ELINCS** European List of Notified Chemical Substances

FΝ **European Norms** 

United States Environmental Protection Agency (United States of America) FPA

ErCx,  $E\mu Cx$ , ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)

et cetera etc. EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax number Fax.

gen. general

ĞHS Globally Harmonized System of Classification and Labelling of Chemicals

**GWP** Global warming potential

Adsorption coefficient of organic carbon in the soil Koc

octanol-water partition coefficient Kow

International Agency for Research on Cancer **IARC** International Air Transport Association IATA IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

including, inclusive

**IUCLID International Uniform Chemical Information Database** IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

Logarithm of adsorption coefficient of organic carbon in the soil Log Koc

Log Kow, Log Pow Logarithm of octanol-water partition coefficient

Limited Quantities LQ

MARPOL International Convention for the Prevention of Marine Pollution from Ships

not applicable n.a. not available n.av. not checked n.c. n.d.a. no data available

NIOSH National Institute for Occupational Safety and Health (USA)

NI P No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PΕ Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million Polyvinylchloride PVC

REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration,

Evaluation, Authorisation and Restriction of Chemicals)

9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List REACH-IT List-No. Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

**UN RTDG** United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

very persistent and very bioaccumulative

wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.



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ATF Additive

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