

# **Safety Data Sheet**

according to UK REACH Regulation

#### 153 Gearbox treatment MP15300125A

Revision date: 28.07.2022 Product code: 1102290 Page 1 of 18

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

#### 1.1. Product identifier

153 Gearbox treatment MP15300125A

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

## Use of the substance/mixture

Additive

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

Company name: TUNAP GmbH & Co. KG
Street: Buergermeister-Seidl-Strasse 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

**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**

Aerosol 3; H229 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

# GB CLP Regulation

## Hazard components for labelling

Polysulfides, di-tert-butyl

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

Diisododecylphenyl phosphite

reaction product of 1,3,4-thiadiazolidine-2,5-dithione,formaldehyde and phenol, heptylderivs.

Triisodecyl phosphite

Isodecyl diphenyl phosphite

Signal word: Danger

# Pictograms:







## **Hazard statements**

H229 Pressurised container: May burst if heated.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H411 Toxic to aquatic life with long lasting effects.



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## **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P251 Do not pierce or burn, even after use.

P280 eye protection

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### Special labelling of certain mixtures

12 % by mass of the contents are flammable.

### 2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

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

### 3.2. Mixtures



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# **Hazardous components**

CAS No	Chemical name	Quantity
	EC No Index No REACH No	
	Classification (GB CLP Regulation)	
68937-96-2	Polysulfides, di-tert-butyl	5 - < 10 %
	273-103-3 01-2119540515-43	
	Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H317 H400 H410	
68411-46-1	Benzenamine, N-phenyl-,reaction products with 2,4,4-trimethylpentene	3 - < 5 %
	270-128-1 01-2119491299-23	
	Aquatic Chronic 3; H412	
68649-42-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	3 - < 5 %
	272-028-3	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2; H315 H318 H411	
	Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	3 - < 5 %
	931-384-6 01-2119493620-38	
	Acute Tox. 4, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H302 H319 H317 H411	
64742-47-8	Distillates (petroleum), hydrotreated light, Kerosine - unspecified	1 - < 3 %
	265-149-8	
	Asp. Tox. 1; H304	
1213789-63- 9	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	0.1 - < 1 %
	627-034-4 01-2119473797-19	
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H318 H335 H373 H304 H400 H410	
25550-98-5	Diisododecylphenyl phosphite	0.1 - < 1 %
	247-098-3 01-2119962888-14	
	Skin Sens. 1; H317	
	reaction product of 1,3,4-thiadiazolidine-2,5-dithione,formaldehyde and phenol, heptylderivs.	0.1 - < 1 %
	939-460-0 01-2119971727-23	
	Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H315 H318 H317 H412	
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	0.1 - < 1 %
	201-297-1 607-035-00-6	
	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335	
25448-25-3	Triisodecyl phosphite	0.1 - < 1 %
	246-998-3 01-2119964066-34	
	Skin Sens. 1; H317	
26544-23-0	Isodecyl diphenyl phosphite	0.1 - < 1 %
	247-777-4 01-2119968254-31	
	Skin Sens. 1; H317	

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



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Specific Conc. Limits, M-factors and ATE

	<u> </u>		
CAS No	EC No	Chemical name	Quantity
	Specific Conc	c. Limits, M-factors and ATE	
68937-96-2	273-103-3	Polysulfides, di-tert-butyl	5 - < 10 %
	dermal: LD50	) = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	
68411-46-1	270-128-1	Benzenamine, N-phenyl-,reaction products with 2,4,4-trimethylpentene	3 - < 5 %
	inhalation: L0 5000 mg/kg	C50 = >5 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = >	
68649-42-3	272-028-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	3 - < 5 %
	dermal: LD50	) = 5000 mg/kg; oral: LD50 = 3100 mg/kg	
	931-384-6	Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	3 - < 5 %
	oral: LD50 =	> 2000 mg/kg Eye Irrit. 2; H319: >= 50,01 - 100	
64742-47-8	265-149-8	Distillates (petroleum), hydrotreated light, Kerosine - unspecified	1 - < 3 %
	inhalation: L0	C50 = > 20 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000	
1213789-63- 9	627-034-4	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated) -alkylamines	0.1 - < 1 %
		C50 = >20 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1689 ute; H400: M=10	
25550-98-5	247-098-3	Diisododecylphenyl phosphite	0.1 - < 1 %
	dermal: LD50	) = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
	939-460-0	reaction product of 1,3,4-thiadiazolidine-2,5-dithione,formaldehyde and phenol, heptylderivs.	0.1 - < 1 %
	dermal: LD50	0 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
25448-25-3	246-998-3	Triisodecyl phosphite	0.1 - < 1 %
		C50 = >12 mg/l (dusts or mists); dermal: LD50 = > 5000 mg/kg; oral: LD50 = Skin Sens. 1; H317: >= 20 - 100	
26544-23-0	247-777-4	Isodecyl diphenyl phosphite	0.1 - < 1 %
	inhalation: L0 mg/kg	C50 = >8,4 mg/l (dusts or mists); dermal: LD50 = >5000 mg/kg; oral: LD50 = 6730	

### **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

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

# After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

# After ingestion

Rinse mouth immediately and drink plenty of water.



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

No information available.

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

Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

#### Unsuitable extinguishing media

High power water jet.

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

Non-flammable.

## 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

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

#### General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 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.

#### 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

No special measures are necessary.

# Advice on protection against fire and explosion

No special fire protection measures are necessary.

# Advice on general occupational hygiene

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

# 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep container tightly closed.



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## Hints on joint storage

No special measures are necessary.

# Further information on storage conditions

Protect from frost. Protect from direct sunlight. 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

## **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
80-62-6	Methyl methacrylate	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL



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# **DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
68937-96-2	Polysulfides, di-tert-butyl			
Worker DNEL	_, long-term	inhalation	systemic	3,29 mg/m <sup>3</sup>
Worker DNEI	_, long-term	dermal	systemic	4,67 mg/kg bw/day
Consumer Di	NEL, long-term	inhalation	systemic	0,58 mg/m³
Consumer Di	NEL, long-term	dermal	systemic	1,67 mg/kg bw/day
Consumer Di	NEL, long-term	oral	systemic	0,167 mg/kg bw/day
68411-46-1	Benzenamine, N-phenyl-,reaction products	with 2,4,4-trimethylpentene		
Worker DNEI	_, long-term	inhalation	systemic	0,6 mg/m³
Worker DNEI	_, long-term	dermal	systemic	0,08 mg/kg bw/day
Consumer DI	NEL, long-term	inhalation	systemic	0,14 mg/m³
Consumer DI	NEL, long-term	dermal	systemic	0,04 mg/kg bw/day
Consumer Di	NEL, long-term	oral	systemic	0,04 mg/kg bw/day
	Reaction products of bis(4-methylpentan-2 and amines, C12-14-alkyl (branched)	-yl)dithiophosphoric acid with phosp	horus oxide, propyle	ne oxide
Worker DNEL	_, long-term	inhalation	systemic	4,28 mg/m <sup>3</sup>
Worker DNEI	_, long-term	dermal	systemic	12,5 mg/kg bw/day
Consumer Di	NEL, long-term	inhalation	systemic	1,09 mg/m³
Consumer Di	NEL, long-term	dermal	systemic	6,25 mg/kg bw/day
Consumer Di	NEL, long-term	oral	systemic	0,25 mg/kg
1213789-63-	(=) ( ) ( ) ( ) ( ) ( )			bw/day
	(Z)-octadec-9-enylamine, C16-18-(even nu	mbered, saturated and unsaturated	)-alkylamines	bw/day
9		mbered, saturated and unsaturated	)-alkylamines systemic	0,38 mg/m³
9 Worker DNEI	_, long-term			
9 Worker DNEL Worker DNEL	_, long-term _, long-term	inhalation	systemic	0,38 mg/m³
9 Worker DNEL Worker DNEL Worker DNEL	_, long-term _, long-term	inhalation inhalation	systemic local	0,38 mg/m³ 1 mg/m³
9 Worker DNEL Worker DNEL Worker DNEL Consumer DI	_, long-term _, long-term _, acute	inhalation inhalation inhalation	systemic local local	0,38 mg/m³ 1 mg/m³ 1 mg/m³
9 Worker DNEI Worker DNEI Worker DNEI Consumer DI Consumer DI	_, long-term _, long-term _, acute NEL, long-term	inhalation inhalation inhalation inhalation	systemic local local systemic	0,38 mg/m³ 1 mg/m³ 1 mg/m³ 0,035 mg/m³ 0,04 mg/kg
9 Worker DNEI Worker DNEI Worker DNEI Consumer Df Consumer Df	, long-term, long-term, acute NEL, long-term NEL, long-term Triisodecyl phosphite	inhalation inhalation inhalation inhalation	systemic local local systemic	0,38 mg/m³ 1 mg/m³ 1 mg/m³ 0,035 mg/m³ 0,04 mg/kg
9 Worker DNEI Worker DNEI Worker DNEI Consumer Di Consumer Di 25448-25-3 Worker DNEI		inhalation inhalation inhalation inhalation oral	systemic local local systemic systemic	0,38 mg/m³ 1 mg/m³ 1 mg/m³ 0,035 mg/m³ 0,04 mg/kg bw/day
9 Worker DNEL Worker DNEL Worker DNEL Consumer Df Consumer Df 25448-25-3 Worker DNEL		inhalation inhalation inhalation inhalation oral inhalation	systemic local local systemic systemic systemic	0,38 mg/m³ 1 mg/m³ 1 mg/m³ 0,035 mg/m³ 0,04 mg/kg bw/day 70,5 mg/m³
9 Worker DNEL Worker DNEL Consumer Df Consumer Df 25448-25-3 Worker DNEL Worker DNEL Consumer Df	, long-term, long-term, acute NEL, long-term NEL, long-term Triisodecyl phosphite, long-term, long-term	inhalation inhalation inhalation inhalation oral  inhalation oral	systemic local local systemic systemic systemic systemic systemic systemic	0,38 mg/m³ 1 mg/m³ 1 mg/m³ 0,035 mg/m³ 0,04 mg/kg bw/day  70,5 mg/m³ 50 mg/kg bw/day



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## **PNEC values**

CAS No	Substance	
Environment	al compartment	Value
68937-96-2	Polysulfides, di-tert-butyl	
Freshwater		0,00024 mg/l
Freshwater (	(intermittent releases)	0,002 mg/l
Marine water	r	0,000024 mg/l
Freshwater s	sediment	0,94 mg/kg
Marine sedin	nent	0,094 mg/kg
Secondary p	oisoning	6,66 mg/kg
Micro-organia	sms in sewage treatment plants (STP)	4,51 mg/l
Soil		0,0181 mg/kg
68411-46-1	Benzenamine, N-phenyl-,reaction products with 2,4,4-trimethylpentene	
Freshwater		0,034 mg/l
Freshwater (	(intermittent releases)	0,51 mg/l
Marine water	r	0,003 mg/l
Freshwater s	sediment	0,446 mg/kg
Marine sedin	nent	0,045 mg/kg
Micro-organi	sms in sewage treatment plants (STP)	10 mg/l
Soil		1,76 mg/kg
	Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with and amines, C12-14-alkyl (branched)	n phosphorus oxide, propylene oxide
Freshwater		0,0024 mg/l
Freshwater (	(intermittent releases)	0,15 mg/l
Marine water	r	0,00024 mg/l
Freshwater s	sediment	0,0129 mg/kg
Marine sedin	nent	0,00129 mg/kg
Secondary p	oisoning	10 mg/kg
Micro-organia	sms in sewage treatment plants (STP)	24,33 mg/l
Soil		0,00117 mg/kg
1213789-63- 9	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsa	turated)-alkylamines
Freshwater		0,00026 mg/l
Freshwater (	(intermittent releases)	0,0016 mg/l
Marine water	r	0,000026 mg/l
Freshwater s	sediment	3,76 mg/kg
Marine sedin	nent	0,376 mg/kg
Micro-organia	sms in sewage treatment plants (STP)	0,55 mg/l
Soil		10 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



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blood (B) Urine (U)

# 8.2. Exposure controls

### Appropriate engineering controls

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

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

#### Eye/face protection

Wear eye/face protection.

### Hand protection

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

#### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

### **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: Aerosol
Colour: red
Odour: mild

Test method

Print date: 25.08.2022

# Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and	>100 °C
hoiling range:	

boiling range:

Sublimation point:not applicableSoftening point:not applicablePour point:not determinedFlash point:> 150 °C

**Flammability** 

Solid/liquid: not applicable
Gas: not applicable

Lower explosion limits:

upper explosion limits:

not applicable

DIN 51649

DIN 51649

Auto-ignition temperature: >300 °C

Self-ignition temperature

Solid: not applicable
Gas: not applicable

Decomposition temperature: not determined



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

Viscosity / kinematic: 1100 mm²/s

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

Vapour pressure: not determined

Density: 0,91 g/cm³ DIN 51757

Relative vapour density: not determined

9.2. Other information

Information with regard to physical hazard classes

Sustaining combustion:

No data available

Oxidizing properties Not oxidising.

Other safety characteristics

Solid content: not determined Evaporation rate: not determined

**Further Information** 

Data apply to technical substance: Relative density, Colour, Odour, Viscosity, pH.

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

Protect from frost.

# 10.5. Incompatible materials

No information available.

## 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# **Further information**

Do not mix with other chemicals.

# **SECTION 11: Toxicological information**

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

#### 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.



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CAS No	Chemical name										
	Exposure route	Dose		Species	Source	Method					
68937-96-2	Polysulfides, di-tert-butyl										
	oral	LD50 mg/kg	> 2000	Rat							
	dermal	LD50 mg/kg	> 2000	Rat							
68411-46-1	Benzenamine, N-phenyl-,reaction products with 2,4,4-trimethylpentene										
	oral	LD50 mg/kg	> 5000	Rat	Study report (1982)	OECD Guideline 401					
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1988)	OECD Guideline 402					
	inhalation (4 h) dust/mist	LC50	>5 mg/l	Rat							
88649-42-3	Phosphorodithioic acid,	O,O-di-C1-1	4-alkyl esters	s, zinc salts							
	oral	LD50 mg/kg	3100	Rat							
	dermal	LD50 mg/kg	5000	Rabbit							
		Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)									
	oral	LD50 mg/kg	> 2000	Rat	Study report (1995)	OECD Guideline 401					
64742-47-8	Distillates (petroleum), hydrotreated light, Kerosine - unspecified										
	oral	LD50 mg/kg	>2000	Rat							
	dermal	LD50 mg/kg	>2000	Rat							
	inhalation (4 h) vapour	LC50	> 20 mg/l	Rat							
1213789-63- 9	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines										
	oral	LD50 mg/kg	1689	Rat	Study report (1993)	OECD Guideline 401					
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1985)	OECD Guideline 402					
	inhalation (4 h) vapour	LC50	>20 mg/l	Rat							
25550-98-5	Diisododecylphenyl phos	sphite									
	oral	LD50	>2000	Rat							
		mg/kg									
	dermal	mg/kg LD50 mg/kg	>2000	Rat							
		LD50 mg/kg			nd phenol, heptylderivs.						
	dermal	LD50 mg/kg			nd phenol, heptylderivs.						



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	oral	LD50 mg/kg	13800	Rat	Study report (1964)	OECD Guideline 401
	dermal	LD50 mg/kg	> 5000	Rabbit	Study report (1980)	OECD Guideline 402
	inhalation (4 h) dust/mist	LC50	>12 mg/l	Rat		
26544-23-0	Isodecyl diphenyl phosph	ite				
	oral	LD50 mg/kg	6730	Rat		
	dermal	LD50 mg/kg	>5000	Rabbit		
	inhalation (4 h) dust/mist	LC50	>8,4 mg/l	Rat		

### Irritation and corrosivity

Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

May cause an allergic skin reaction. (Polysulfides, di-tert-butyl; Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched); Diisododecylphenyl phosphite; reaction product of 1,3,4-thiadiazolidine-2,5-dithione,formaldehyde and phenol, heptylderivs.; methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; Triisodecyl phosphite; Isodecyl diphenyl phosphite)

# 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.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Toxic to aquatic life with long lasting effects.



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CAS No	Chemical name								
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method		
8937-96-2	Polysulfides, di-tert-butyl								
	Acute fish toxicity	LC50 mg/l	> 0,088	96 h	Danio rerio (zebrafish)				
	Acute algae toxicity	ErC50 mg/l	0,838	72 h	Pseudokirchneriella subcapitata	REACh Registration Dossier	OECD Guideline 201		
	Acute crustacea toxicity	EC50	63 mg/l	48 h	Daphnia magna	Study report (2013)	OECD Guideline 202		
8411-46-1	Benzenamine, N-phenyl-,	reaction pro	ducts with 2,	4,4-trime	thylpentene				
	Acute fish toxicity	LC50 mg/l	> 100	96 h	Danio rerio	Study report (1988)	OECD Guideline 203		
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Desmodesmus subspicatus	Study report (2006)	OECD Guideline 201		
	Acute crustacea toxicity	EC50	51 mg/l	48 h	Daphnia magna	Study report (2004)	OECD Guideline 202		
8649-42-3	Phosphorodithioic acid, O	,O-di-C1-14	-alkyl esters,	zinc sal	ts				
	Acute fish toxicity	LC50	>1 mg/l	96 h	Danio rerio (zebrafish)				
	Acute algae toxicity	ErC50	>1 mg/l	96 h	Selenastrum capricornutum				
	Acute crustacea toxicity	EC50	>1 mg/l	48 h	Daphnia magna				
	Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)								
	Acute fish toxicity	LL50 mg/l	ca. 24	96 h	Oncorhynchus mykiss	REACh Registration Dossier	OECD Guideline 203		
	Acute algae toxicity	ErC50	6,4 mg/l	96 h	Pseudokirchneriella subcapitata	REACh Registration Dossier	OECD Guideline 201		
	Acute crustacea toxicity	EL50 mg/l	ca. 91,4	48 h	Daphnia magna	REACh Registration Dossier	OECD Guideline 202		
	Acute bacteria toxicity	(EC50 mg/l)	ca. 2433	3 h	activated sludge, domestic	REACh Registration Dossier	OECD Guideline 209		
4742-47-8	Distillates (petroleum), hy	drotreated li	ght, Kerosine	e - unspe	cified				
	Acute fish toxicity	LC50 mg/l	>1000	96 h	Oncorhynchus mykiss (Rainbow trout)				
	Acute algae toxicity	ErC50 mg/l	>1000	72 h	Pseudokirchneriella subcapitata				
	Acute crustacea toxicity	EC50 mg/l	>1000	48 h	Daphnia magna				
213789-63 9	(Z)-octadec-9-enylamine,	C16-18-(ev	en numbered	l, saturat	ed and unsaturated)-alky	lamines			
	Acute fish toxicity	LC50 mg/l	0,84	96 h	Danio rerio	Study report (2006)	OECD Guideline 203		
	Acute algae toxicity	ErC50 mg/l	0,39	72 h	Desmodesmus subspicatus	Study report (2002)	OECD Guideline 201		



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	Acute crustacea toxicity	EC50 mg/l	0,32	48 h	Daphnia magna	Study report (2006)	OECD Guideline 202
	Crustacea toxicity	NOEC mg/l	0,013	21 d	Daphnia magna	Study report (2002)	OECD Guideline 211
	Acute bacteria toxicity	(EC50	32 mg/l)		activated sludge of a predominantly domestic sewag	Study report (1989)	OECD Guideline 209
25550-98-5	Diisododecylphenyl phosi	ohite					
	Acute fish toxicity	LC50 mg/l	>100		Leuciscus idus (golden orfe)		
	Acute algae toxicity	ErC50	45 mg/l		Scenedesmus subspicatus		
	Acute crustacea toxicity	EC50	> 2 mg/l	48 h	Daphnia magna		
	reaction product of 1,3,4-	hiadiazolidi	ne-2,5-dithior	ne,formal	dehyde and phenol, hepty	ylderivs.	
	Acute fish toxicity	LC50	26 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50	9,2 mg/l		Selenastrum capricornutum		
	Acute crustacea toxicity	EC50	75 mg/l		Daphnia magna (Big water flea)		

# 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name						
	Method	Value	d	Source			
	Evaluation						
1213789-63-	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated an	d unsaturated)-alkylamine	es				
9							
		44	28				

# 12.3. Bioaccumulative potential

The product has not been tested.

## Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
68937-96-2	Polysulfides, di-tert-butyl	5,6
68411-46-1	Benzenamine, N-phenyl-,reaction products with 2,4,4-trimethylpentene	> 6
	Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	< 0,3
1213789-63-9	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	5,16
25448-25-3	Triisodecyl phosphite	12,31



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#### BCF

CAS No	Chemical name	BCF	Species	Source
68937-96-2	Polysulfides, di-tert-butyl	0,006	Lepomis macrochirus	Study report (2015)
68411-46-1	Benzenamine, N-phenyl-,reaction products with 2,4,4-trimethylpentene	411	Cyprinus carpio	Study report (2000)
	Reaction products of bis(4-methylpentan-2-yl)dithiophospho ric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	436	Onchorhynchus mykiss	REACh Registration D
1213789-63-9	(Z)-octadec-9-enylamine, C16-18- (even numbered, saturated and unsaturated)-alkylamines	173		Environmental Toxico

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

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

The product has not been tested.

### 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 information available.

### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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

#### 13.1. Waste treatment methods

### **Disposal recommendations**

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

## List of Wastes Code - residues/unused products

070704 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and

 $chemical\ products\ not\ otherwise\ specified;\ other\ organic\ solvents,\ washing\ liquids\ and\ mother\ liquors;$ 

hazardous waste

# List of Wastes Code - used product

070704 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and

chemical products not otherwise specified; other organic solvents, washing liquids and mother liquors;

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

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.



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### **SECTION 14: Transport information**

Land transport (ADR/RID)

**14.1. UN number or ID number:** UN 1950 **14.2. UN proper shipping name:** AEROSOLS

14.3. Transport hazard class(es):214.4. Packing group:-Hazard label:2.2Classification code:5A

Special Provisions: 190 327 344 625

Limited quantity: 1 L
Excepted quantity: E0
Transport category: 3
Tunnel restriction code: E

Inland waterways transport (ADN)

**14.1. UN number or ID number:** UN 1950 **14.2. UN proper shipping name:** AEROSOLS

14.3. Transport hazard class(es):214.4. Packing group:-Hazard label:2.2Classification code:5A

Special Provisions: 190 327 344 625

Limited quantity: 1 L
Excepted quantity: E0

Marine transport (IMDG)

**14.1. UN number or ID number:** UN 1950

14.2. UN proper shipping name: AEROSOLS ((Z)-octadec-9-enylamine)

14.3. Transport hazard class(es):2.214.4. Packing group:-Hazard label:2.2Marine pollutant:yes

Special Provisions: 63, 190, 277, 327, 344, 959

Limited quantity: 1000 mL Excepted quantity: E0 EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1950

14.2. UN proper shipping name: AEROSOLS, non-flammable

14.3. Transport hazard class(es):2.214.4. Packing group:-Hazard label:2.2

Special Provisions: A98 A145 A167 A802

Limited quantity Passenger: 30 kg G
Passenger LQ: Y203
Excepted quantity: E0

IATA-packing instructions - Passenger:203IATA-max. quantity - Passenger:75 kgIATA-packing instructions - Cargo:203IATA-max. quantity - Cargo:150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



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Danger releasing substance: (Z)-octadec-9-enylamine

#### 14.6. Special precautions for user

No information available.

#### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

# **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 3, Entry 75

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)

Aerosol Directive (75/324/)

### **National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

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

### Changes

This data sheet contains changes from the previous version in section(s): 14.

### 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)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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 LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

### Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure			
Aerosol 3; H229	On basis of test data			
Eye Dam. 1; H318	Bridging principle "Aerosols"			
Skin Sens. 1; H317	Bridging principle "Aerosols"			
Aquatic Chronic 2; H411	Calculation method			

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

H225 Highly flammable liquid and vapour.H229 Pressurised container: May burst if heated.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.



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H314	Causes severe skin burns and eye damage.				
H315	Causes skin irritation.				
H317	May cause an allergic skin reaction.				
H318	Causes serious eye damage.				
H319	Causes serious eye irritation.				
H335	May cause respiratory irritation.				
H373	May cause damage to organs through prolonged or repeated exposure.				
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.				
Curther Information					

### **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.)