

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878 - FR



## OKS 473

Version	Revision Date:	Date of last issue: 27.11.2023	Print Date:
2.0	07.02.2025	Date of first issue: 02.05.2016	07.02.2025

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

### 1.1 Product identifier

Product name : OKS 473

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

Use of the Substance/Mixture : Grease

Recommended restrictions on use : Restricted to professional users.

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

Company : OKS Spezialechmierstoffe GmbH  
Ganghoferstr. 47  
82216 Maisach-Gernlinden  
Deutschland  
Tel.: +49 8142 3051 500  
Fax: +49 8142 3051 599  
info@oks-germany.com

E-mail address of person responsible for the SDS : mcm@oks-germany.com

National contact :

### 1.4 Emergency telephone number

Emergency telephone number : +33 1 45 42 59 59 ORFILA  
+33 1 72 11 00 03 NCEC  
+49 8142 3051 517

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Long-term (chronic) aquatic hazard, Category 2 H411: Toxic to aquatic life with long lasting effects.

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### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Hazard statements : H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P273 Avoid release to the environment.

**Response:**  
P391 Collect spillage.

### 2.3 Other hazards

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Synthetic hydrocarbon oil  
aluminium complex soap

#### Components

Chemical name	CAS-No. EC-No.  Index-No. Registration number	Classification	specific concentration limit M-Factor Notes Acute toxicity estimate	Concentration (% w/w)
N-methyl-N-[C18-(unsaturated)alkanoyl]glycine	701-177-3	Acute Tox.4; H332 Skin Irrit.2; H315 Eye Dam.1; H318	M-Factor: 1/	>= 0,25 - < 1

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	01-2119488991-20-XXXX	Aquatic Acute1; H400 Aquatic Chronic3; H412	ATE ATE (Inhalation): 1,37 mg/l;	
O,O,O-triphenyl phosphorothioate	597-82-0 209-909-9  01-2119979545-21-XXXX	Aquatic Chronic1; H410	M-Factor: /10	>= 0,25 - < 1
Amines, C12-14-alkyl, isooctyl phosphates	68187-67-7 269-119-5  01-2120286234-55-XXXX	Acute Tox.4; H302 Acute Tox.4; H312 Skin Corr.1C; H314 Eye Dam.1; H318 Aquatic Acute1; H400 Aquatic Chronic2; H411; EUH071		>= 0,25 - < 1
2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4  01-2119555270-46-XXXX	Aquatic Acute1; H400 Aquatic Chronic1; H410	M-Factor: 1/1	>= 0,1 - < 0,25

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.  
Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.  
Wash off with soap and water.  
Wash clothing before reuse.

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- Thoroughly clean shoes before reuse.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.  
If eye irritation persists, consult a specialist.
- If swallowed : Move the victim to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
Do not induce vomiting without medical advice.  
Never give anything by mouth to an unconscious person.

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

- Symptoms : No symptoms known or expected.
- Risks : None known.

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

- Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet

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

- Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Metal oxides

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment. Exposure to decomposition products may be a hazard to health.
- Further information : Standard procedure for chemical fires.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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### SECTION 6: Accidental release measures

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

Personal precautions : Evacuate personnel to safe areas.  
Ensure adequate ventilation.  
Do not breathe vapours, aerosols.  
Refer to protective measures listed in sections 7 and 8.

#### 6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water.  
If the product contaminates rivers and lakes or drains inform  
respective authorities.

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

Methods for cleaning up : Pick up and transfer to properly labelled containers.

#### 6.4 Reference to other sections

For personal protection see section 8.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the  
application area.  
Wash hands and face before breaks and immediately after  
handling the product.  
Do not ingest.  
Do not repack.  
These safety instructions also apply to empty packaging which  
may still contain product residues.  
Keep container closed when not in use.

Hygiene measures : Wash face, hands and any exposed skin thoroughly after  
handling.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep container closed when not in  
use. Keep in a dry, cool and well-ventilated place. Containers  
which are opened must be carefully resealed and kept upright  
to prevent leakage. Store in accordance with the particular  
national regulations. Keep in properly labelled containers.

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### 7.3 Specific end use(s)

Specific use(s) : Specific instructions for handling, not required.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2,6-di-tert-butyl-p-cresol	128-37-0	VME	10 mg/m <sup>3</sup>	FR VLE (2005-02-01)
Further information: Indicative exposure limits				

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
White mineral oil (petroleum)	Workers	Inhalation	Long-term systemic effects	164,56 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	217,05 mg/kg
N-methyl-N-[C18-(unsaturated)alkanoyl]glycine	Workers	Inhalation	Long-term systemic effects	0,8 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	4,2 mg/kg bw/day
O,O,O-triphenyl phosphorothioate	Workers	Inhalation	Long-term systemic effects	1,39 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	0,4 mg/kg
2,6-di-tert-butyl-p-cresol	Workers	Inhalation	Long-term systemic effects	1,76 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	0,5 mg/kg

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Aluminum, benzoate C16-18-fatty acids complexes	Fresh water	0,1 mg/l
	Marine water	0,01 mg/l
N-methyl-N-[C18-(unsaturated)alkanoyl]glycine	Fresh water	0,00043 mg/l
	Marine water	0,000043 mg/l
	Microbiological Activity in Sewage Treatment Systems	1 mg/l
	Fresh water sediment	0,057 mg/kg
	Marine sediment	0,006 mg/kg

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	Soil	1,71 mg/kg
O,O,O-triphenyl phosphorothioate	Fresh water	0,00017 mg/l
	Marine water	0,000017 mg/l
	Fresh water sediment	3,47 mg/kg
	Marine sediment	0,347 mg/kg
	Soil	2,46 mg/kg
2,6-di-tert-butyl-p-cresol	Fresh water	0,199 µg/l
	Marine water	0,02 µg/l
	Intermittent use/release	1,99 µg/l
	Microbiological Activity in Sewage Treatment Systems	0,017 mg/l
	Fresh water sediment	0,458 mg/kg
	Marine sediment	0,046 mg/kg
	Soil	0,054 mg/kg

## 8.2 Exposure controls

### Engineering measures

none

### Personal protective equipment

Eye/face protection : Safety glasses

Hand protection

Material : Nitrile rubber  
Break through time : > 10 min  
Protective index : Class 1

Remarks : For prolonged or repeated contact use protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.  
The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Respiratory protection : Not required; except in case of aerosol formation.

Filter type : Filter type P

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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### Environmental exposure controls

Air : Should not be released into the environment.

Soil :  
Do not allow contact with soil, surface or ground water.  
The product should not be allowed to enter drains, water courses or the soil.

Water :  
Do not allow contact with soil, surface or ground water.  
The product should not be allowed to enter drains, water courses or the soil.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	:	paste
Colour	:	yellow
Odour	:	characteristic
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flammability (solid, gas)	:	Combustible Solids
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available

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pH : Not applicable  
substance/mixture is non-soluble (in water)

Viscosity  
Viscosity, dynamic : No data available

Viscosity, kinematic : Not applicable

Solubility(ies)  
Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-  
octanol/water : No data available

Vapour pressure : < 0,001 hPa (20 °C)

Relative density : 0,85 (20 °C)  
Reference substance: Water  
The value is calculated

Density : 0,85 g/cm<sup>3</sup>  
(20 °C)

Bulk density : No data available

Relative vapour density : No data available

Particle characteristics  
Particle size : Not applicable

Particle Size Distribution : Not applicable

### 9.2 Other information

Explosives : Not explosive

Oxidizing properties : No data available

Self-ignition : No data available

Evaporation rate : No data available

Sublimation point : No data available

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No hazards to be specially mentioned.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

#### 10.4 Conditions to avoid

Conditions to avoid : No conditions to be specially mentioned.

#### 10.5 Incompatible materials

Materials to avoid : No materials to be especially mentioned.

#### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

### SECTION 11: Toxicological information

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

##### Acute toxicity

##### Product:

Acute oral toxicity : Remarks: This information is not available.

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : Remarks: This information is not available.

##### Components:

##### **N-methyl-N-[C18-(unsaturated)alkanoyl]glycine:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): 1,37 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute toxicity estimate: 1,37 mg/l  
Test atmosphere: dust/mist

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Method: ATE value derived from LD50/LC50 value

### **O,O,O-triphenyl phosphorothioate:**

Acute oral toxicity : LD50 (Rat): > 10.000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: No mortality observed at this dose.

### **Amines, C12-14-alkyl, isooctyl phosphates:**

Acute oral toxicity : LD50 (Rat): 1.000 mg/kg  
Method: OECD Test Guideline 423  
GLP: yes

Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rabbit): 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

### **2,6-di-tert-butyl-p-cresol:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 402

### **Skin corrosion/irritation**

#### **Product:**

Remarks : This information is not available.

#### **Components:**

##### **N-methyl-N-[C18-(unsaturated)alkanoyl]glycine:**

Species : Rabbit  
Assessment : Irritating to skin.  
Result : Irritating to skin.

##### **O,O,O-triphenyl phosphorothioate:**

Species : Rabbit  
Assessment : No skin irritation  
Result : No skin irritation

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### Amines, C12-14-alkyl, isooctyl phosphates:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.  
GLP : yes

### 2,6-di-tert-butyl-p-cresol:

Species : Rabbit  
Assessment : No skin irritation  
Result : No skin irritation

### Serious eye damage/eye irritation

#### Product:

Remarks : This information is not available.

#### Components:

### N-methyl-N-[C18-(unsaturated)alkanoyl]glycine:

Species : Rabbit  
Assessment : Risk of serious damage to eyes.  
Result : Risk of serious damage to eyes.

### O,O,O-triphenyl phosphorothioate:

Species : Rabbit  
Assessment : No eye irritation  
Result : No eye irritation

### Amines, C12-14-alkyl, isooctyl phosphates:

Assessment : Risk of serious damage to eyes.  
Result : Risk of serious damage to eyes.

### 2,6-di-tert-butyl-p-cresol:

Species : Rabbit  
Assessment : No eye irritation  
Method : Draize Test  
Result : No eye irritation

### Respiratory or skin sensitisation

#### Product:

Remarks : This information is not available.

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### Components:

#### **N-methyl-N-[C18-(unsaturated)alkanoyl]glycine:**

Test Type : Maximisation Test  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

#### **O,O,O-triphenyl phosphorothioate:**

Assessment : Does not cause skin sensitisation.

#### **Amines, C12-14-alkyl, isooctyl phosphates:**

Species : Guinea pig  
Assessment : Did not cause sensitisation on laboratory animals.  
Method : OECD Test Guideline 406  
Result : Did not cause sensitisation on laboratory animals.  
GLP : yes

#### **2,6-di-tert-butyl-p-cresol:**

Species : Humans  
Assessment : Does not cause skin sensitisation.  
Result : Does not cause skin sensitisation.

### **Germ cell mutagenicity**

#### Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

### Components:

#### **O,O,O-triphenyl phosphorothioate:**

Germ cell mutagenicity-  
Assessment : Animal testing did not show any mutagenic effects.

#### **Amines, C12-14-alkyl, isooctyl phosphates:**

Germ cell mutagenicity-  
Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

#### **2,6-di-tert-butyl-p-cresol:**

Genotoxicity in vitro : Test Type: Ames test  
Result: negative  
Remarks: In vitro tests did not show mutagenic effects

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Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Result: negative

Germ cell mutagenicity-  
Assessment : Tests on bacterial or mammalian cell cultures did not show  
mutagenic effects.

### Carcinogenicity

#### Product:

Remarks : No data available

### Reproductive toxicity

#### Product:

Effects on fertility : Remarks: No data available

Effects on foetal  
development : Remarks: No data available

### Components:

#### **O,O,O-triphenyl phosphorothioate:**

Reproductive toxicity -  
Assessment : - Fertility -  
Animal testing did not show any effects on fertility.

#### **2,6-di-tert-butyl-p-cresol:**

Reproductive toxicity -  
Assessment : - Fertility -  
No toxicity to reproduction

### STOT - single exposure

#### Product:

Remarks : No data available

### STOT - repeated exposure

#### Product:

Remarks : No data available

### Repeated dose toxicity

#### Product:

Remarks : This information is not available.

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### Aspiration toxicity

#### Product:

This information is not available.

#### Components:

##### 2,6-di-tert-butyl-p-cresol:

No aspiration toxicity classification

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Further information

#### Product:

Remarks : Information given is based on data on the components and the toxicology of similar products.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae/aquatic plants : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

#### Components:

N-methyl-N-[C18-(unsaturated)alkanoyl]glycine:

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- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 0,43 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,43 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 6,3 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201
- NOEC (Desmodesmus subspicatus (green algae)): 0,91 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201
- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to microorganisms : NOEC (activated sludge): 10 mg/l  
Exposure time: 3 h  
Test Type: static test  
Method: OECD Test Guideline 209

### Ecotoxicology Assessment

- Acute aquatic toxicity : Very toxic to aquatic life.
- Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

### O,O,O-triphenyl phosphorothioate:

- Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

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- Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209
- Toxicity to fish (Chronic toxicity) : NOEC: 0,0017 mg/l  
Exposure time: 97 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Test Type: flow-through test  
Method: OECD Test Guideline 210
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,00724 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211
- M-Factor (Chronic aquatic toxicity) : 10

### Amines, C12-14-alkyl, isooctyl phosphates:

- Toxicity to fish : LC0 (Danio rerio (zebra fish)): 1 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: Regulation (EC) No. 440/2008, Annex, C.1  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 17 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes
- Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): 0,8 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

### Ecotoxicology Assessment

- Acute aquatic toxicity : Very toxic to aquatic life.
- Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

### 2,6-di-tert-butyl-p-cresol:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0,57 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,61 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 0,4 mg/l  
Exposure time: 72 h  
Method: Regulation (EC) No. 440/2008, Annex, C.3

M-Factor (Acute aquatic toxicity) : 1

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,316 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 1

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

#### Components:

##### **N-methyl-N-[C18-(unsaturated)alkanoyl]glycine:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Result: rapidly biodegradable  
Biodegradation: 85,2 %  
Exposure time: 28 d

##### **O,O,O-triphenyl phosphorothioate:**

Biodegradability : Result: Not rapidly biodegradable

##### **Amines, C12-14-alkyl, isooctyl phosphates:**

Biodegradability : Result: Not rapidly biodegradable  
Biodegradation: 35 %  
Exposure time: 28 d  
Method: Directive 67/548/EEC Annex V, C.4.D.  
GLP: yes

##### **2,6-di-tert-butyl-p-cresol:**

Biodegradability : Test Type: aerobic

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Inoculum: activated sludge  
Result: Not rapidly biodegradable  
Biodegradation: 4,5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

#### Components:

##### **N-methyl-N-[C18-(unsaturated)alkanoyl]glycine:**

Partition coefficient: n-  
octanol/water : log Pow: 6,83

##### **O,O,O-triphenyl phosphorothioate:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Exposure time: 56 d  
Bioconcentration factor (BCF): 2.551

Partition coefficient: n-  
octanol/water : log Pow: 5,1 (20 °C)

##### **Amines, C12-14-alkyl, isooctyl phosphates:**

Partition coefficient: n-  
octanol/water : log Pow: 1,87  
Method: OECD Test Guideline 117  
GLP: yes

##### **2,6-di-tert-butyl-p-cresol:**

Bioaccumulation : Bioconcentration factor (BCF): 598,4

Partition coefficient: n-  
octanol/water : log Pow: 5,1

### 12.4 Mobility in soil

#### Product:

Mobility : Remarks: No data available

Distribution among  
environmental compartments : Remarks: No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

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Assessment : This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

### Components:

#### **O,O,O-triphenyl phosphorothioate:**

Assessment : PBT substance. Substance is persistent, bioaccumulative, and toxic (PBT).. Substance is not very persistent and very bioaccumulative (vPvB).

#### **2,6-di-tert-butyl-p-cresol:**

Assessment : Non-classified PBT substance. Non-classified vPvB substance

## 12.6 Endocrine disrupting properties

### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7 Other adverse effects

### Product:

Additional ecological information : Toxic to aquatic life with long lasting effects.

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not dispose of with domestic refuse.  
Dispose of as hazardous waste in compliance with local and national regulations.

Waste codes should be assigned by the user based on the application for which the product was used.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.  
Dispose of waste product or used containers according to local regulations.

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The following Waste Codes are only suggestions:

Waste Code : used product, unused product  
12 01 12\*\*, spent waxes and fats

uncleaned packagings  
15 01 10\*, packaging containing residues of or contaminated  
by hazardous substances

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADN : UN 3077  
ADR : UN 3077  
RID : UN 3077  
IMDG : UN 3077  
IATA : UN 3077

### 14.2 UN proper shipping name

ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(O,O,O-triphenyl phosphorothioate)

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(O,O,O-triphenyl phosphorothioate)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(O,O,O-triphenyl phosphorothioate)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(O,O,O-triphenyl phosphorothioate)

IATA : Environmentally hazardous substance, solid, n.o.s.  
(O,O,O-triphenyl phosphorothioate)

### 14.3 Transport hazard class(es)

ADN : 9  
ADR : 9  
RID : 9  
IMDG : 9  
IATA : 9

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### 14.4 Packing group

#### ADN

Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9

#### ADR

Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

#### RID

Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9

#### IMDG

Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

#### IATA (Cargo)

Packing instruction (cargo aircraft) : 956  
Packing instruction (LQ) : Y956  
Packing group : III  
Labels : Miscellaneous Dangerous Goods

#### IATA (Passenger)

Packing instruction (passenger aircraft) : 956  
Packing instruction (LQ) : Y956  
Packing group : III  
Labels : Miscellaneous Dangerous Goods

### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : yes

#### ADR

Environmentally hazardous : yes

#### RID

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

#### IATA (Passenger)

Environmentally hazardous : yes

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### IATA (Cargo)

Environmentally hazardous : yes

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Remarks : Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 75  
If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). (EU SVHC) : O,O,O-triphenyl phosphorothioate

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer (EC 1005/2009) : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) (EU POP) : Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals (EU PIC) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) (EU. REACH-Annex XIV) : Not applicable

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Regulation (EU) 2019/1148 on the marketing and use of : Not applicable  
explosives precursors

Seveso III: Directive 2012/18/EU of the European E2 ENVIRONMENTAL HAZARDS  
Parliament and of the Council on the control of  
major-accident hazards involving dangerous  
substances.

Installations classified for the : 4511  
protection of the environment  
(Environment Code R511-9)

Occupational Illnesses (R- : 36, 34, 49, 49 bis  
461-3, France)

Reinforced medical : The product has no CMR properties category 1, 1A or 1B  
supervision (R4624-23)

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial  
emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: < 0,01 %

### 15.2 Chemical safety assessment

This information is not available.

## SECTION 16: Other information

### Full text of H-Statements

H302 : Harmful if swallowed.  
H312 : Harmful in contact with skin.  
H314 : Causes severe skin burns and eye damage.  
H315 : Causes skin irritation.  
H318 : Causes serious eye damage.  
H332 : Harmful if inhaled.  
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.  
EUH071 : Corrosive to the respiratory tract.

### Full text of other abbreviations

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FR VLE : France. Occupational Exposure Limits  
FR VLE / VME : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Aquatic Chronic 2                      H411

#### Classification procedure:

Calculation method

|| Relevant changes compared to the last edition are highlighted at the left margin. This version replaces all previous editions.

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