

# Safety Data Sheet

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



Trade name : SINTONO GPE 702  
Revision date : 19.01.2026  
Print date : 19.01.2026

Version (Revision) : 3.0.0 (2.3.0)

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

### 1.1 Product identifier

SINTONO GPE 702

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

#### Relevant identified uses

##### Product Categories [PC]

PC24 - Lubricants, greases, release products

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

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

Lubricant Consult GmbH

**Street :** Gutenbergstraße 13

**Postal code/city :** 63477 MAINTAL (GERMANY)

**Telephone :** +49 6109/7650-0

**Telefax :** +49 6109/7650-51

**E-mail :** msds-request@lubcon.com

**Information contact :** Environment, Health & Safety: Dr. Jens Matthes

### 1.4 Emergency telephone number

+49 6109/7650-0

Monday to Friday 8:00 AM to 4:00 PM (CET)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

##### Hazard pictograms



Environment (GHS09)

##### Hazard statements

H411 Toxic to aquatic life with long lasting effects.

##### Precautionary statements

P273 Avoid release to the environment.

P391 Collect spillage.

### 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

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### 3.2 Mixtures

#### Hazardous ingredients

3,3'-dioctadecyl-1,1'-methylenebis(4,1-phenylene)diurea ; EC No. : 406-690-3; CAS No. : 43136-14-7

Weight fraction :  $\geq 10 - < 50$  %  
Classification 1272/2008 [CLP] : Aquatic Chronic 4 ; H413

2-Ethylhexyl zinc dithiophosphate ; REACH registration No. : 01-2119493635-27-xxxx ; EC No. : 224-235-5; CAS No. : 4259-15-8

Weight fraction :  $\geq 1 - < 5$  %  
Classification 1272/2008 [CLP] : Eye Dam. 1 (SCL = 50 %); H318 Aquatic Chronic 2 ; H411

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene ; REACH registration No. : 01-2119491299-23-xxxx ; EC No. : 270-128-1; CAS No. : 68411-46-1

Weight fraction :  $\geq 1 - < 3$  %  
Classification 1272/2008 [CLP] : Repr. 2 ; H361f Aquatic Chronic 3 ; H412

O,O,O-triphenyl phosphorothioate ; REACH registration No. : 01-2119979545-21-xxxx ; EC No. : 209-909-9; CAS No. : 597-82-0

Weight fraction :  $\geq 0,5 - < 1$  %  
Classification 1272/2008 [CLP] : Aquatic Chronic 1 ; H410

**This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH**

O,O,O-triphenyl phosphorothioate ; REACH registration No. : 01-2119979545-21-xxxx ; EC No. : 209-909-9; CAS No. : 597-82-0

#### Additional information

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

Remove contaminated, saturated clothing immediately. Wash immediately with: Water and soap In case of skin irritation, consult a physician.

#### After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

### 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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

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## Suitable extinguishing media

Dry extinguishing powder. Carbon dioxide (CO<sub>2</sub>). ABC-powder. BC-powder. Foam. Dry sand.

## Unsuitable extinguishing media

Water. Strong water jet. High power water jet.

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

Hazardous combustion products: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Burning produces heavy smoke.

### 5.3 Advice for firefighters

Use suitable breathing apparatus.

### 5.4 Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

Special danger of slipping by leaking/spilling product.

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

None

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Ensure waste is collected and contained. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

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

Take up mechanically, placing in appropriate containers for disposal. Soak up inert absorbent and dispose as waste requiring special attention. Suitable material for taking up: Universal binder. Kieselguhr.

### 6.4 Reference to other sections

None

## SECTION 7: Handling and storage



### 7.1 Precautions for safe handling

#### Protective measures

It is recommended to design all work processes always so that the following is excluded: Generation/formation of mist. Avoid: Inhalation of vapours or spray/mists. Skin contact, Eye contact. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

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

#### Hints on joint storage

Storage class : 13

Storage class (TRGS 510) : 13

#### Keep away from

Food and feedingstuffs

#### Further information on storage conditions

Keep/Store only in original container. Keep container tightly closed. Protect against UV-radiation/sunlight. Humidity. Contact with air/oxygen. Dust deposits.

### 7.3 Specific end use(s)

None

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### SECTION 8: Exposure controls/personal protection

Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and after work. Take the precautions customary when handling chemicals. Change contaminated, saturated clothing. Keep away from sources of ignition - No smoking.

#### 8.1 Control parameters

##### Occupational exposure limit values

O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0

Limit value type (country of origin) : TRGS 900 ( D )

Parameter : E: inhalable fraction

Limit value : 20 mg/m<sup>3</sup>

Peak limitation : 2(II)

Remark : DFG

Version : 01.06.2021

##### DNEL/DMEL and PNEC values

###### DNEL/DMEL

Limit value type : DNEL Consumer (systemic) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )

Exposure route : Oral

Exposure frequency : Long-term (repeated)

Limit value : = 0,19 mg/kg/d

Limit value type : DNEL Consumer (systemic) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )

Exposure route : Inhalation

Exposure frequency : Long-term (repeated)

Limit value : = 1,67 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (systemic) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )

Exposure route : Dermal

Exposure frequency : Long-term (repeated)

Limit value : = 4,8 mg/kg

Limit value type : DNEL worker (local) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )

Exposure route : Dermal

Exposure frequency : Short-term (acute)

Limit value : = 0,09 mg/cm<sup>2</sup>

Limit value type : DNEL worker (local) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )

Exposure route : Inhalation

Exposure frequency : Short-term (acute)

Limit value : = 0,42 ppm

Limit value type : DNEL worker (local) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : = 0,09 mg/cm<sup>2</sup>/d

Limit value type : DNEL worker (local) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )

Exposure route : Inhalation

Exposure frequency : Long-term (repeated)

Limit value : = 0,07 ppm

Limit value type : DNEL worker (systemic) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )

Exposure route : Dermal

Exposure frequency : Short-term (acute)

Limit value : = 0,14 mg/kg/d

Limit value type : DNEL worker (systemic) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )

Exposure route : Inhalation

Exposure frequency : Short-term (acute)

Limit value : = 0,42 ppm

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Limit value type :	DNEL worker (systemic) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	= 9,59 mg/kg
Limit value type :	DNEL worker (systemic) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	= 0,21 ppm
Limit value type :	DNEL worker (systemic) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	= 6,6 mg/m <sup>3</sup>
Limit value type :	DNEL worker (systemic) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	= 9,6 mg/kg/d
Limit value type :	DNEL Consumer (systemic) ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	= 0,34 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	= 0,2 mg/kg
Limit value type :	DNEL Consumer (systemic) ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )
Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	= 0,2 mg/kg
Limit value type :	DNEL worker (systemic) ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	= 1,39 mg/m <sup>3</sup>
Limit value type :	DNEL worker (systemic) ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	= 0,4 mg/kg
<b>PNEC</b>	
Limit value type :	PNEC (Air) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )
Limit value :	= 7,1 mg/m <sup>3</sup>
Limit value type :	PNEC (Aquatic, freshwater) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )
Limit value :	= 0,004 mg/l
Limit value type :	PNEC (Aquatic, marine water) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )
Limit value :	= 0,0046 mg/l
Limit value type :	PNEC (Sediment, freshwater) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )
Limit value :	= 0,0701 mg/kg
Limit value type :	PNEC (Sediment, marine water) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )
Limit value :	= 0,00701 mg/kg
Limit value type :	PNEC Soil ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )
Limit value :	= 0,0548 mg/kg
Limit value type :	PNEC (Secondary poisoning) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )
Limit value :	= 8,3 mg/kg

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Limit value type : PNEC (Sewage treatment plant) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Limit value : = 3,8 mg/l  
Limit value type : PNEC Soil ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )  
Limit value : = 2,37 mg/kg  
Limit value type : PNEC (Sewage treatment plant) ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )  
Limit value : = 1 mg/l

## 8.2 Exposure controls

### Personal protection equipment

#### Eye/face protection

Use safety glasses. Avoid: Eye contact.

#### Recommended eye protection articles

DIN EN 166

#### Skin protection

##### Hand protection

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.

**By long-term hand contact :** Wear suitable gloves.

**Suitable material :** PE (Polyethylene). NR (natural rubber, natural latex). NBR (Nitrile rubber).

**Breakthrough time (maximum wearing time) :** PE < 30 min. ; NR < 10 min.; NBR > 480 min.

**Thickness of the glove material :** min. 0,38 mm

**Recommended glove articles :** EN ISO 374; DIN EN 420 Uvex. KCL, MAPA. Or comparable articles from other companies.

#### Respiratory protection

No special measures are necessary. Avoid: Inhalation of vapours or spray/mists

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Colour :** No information available.

#### Safety relevant basis data

<b>Physical state :</b>		pasty
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )	No data available
<b>Decomposition temperature :</b>	( 1013 hPa )	No data available
<b>Flash point :</b>	( 1013 hPa )	none
<b>Vapour pressure :</b>	( 50 °C )	none
<b>Density :</b>	( 20 °C )	1 - 4 g/cm <sup>3</sup>

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

The product is stable.

### 10.3 Possibility of hazardous reactions

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No information available.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

Oxidising agent, strong. Strong acid. Strong alkali.

### 10.6 Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Gases/vapours, harmful.

## SECTION 11: Toxicological information

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

#### Acute effects

By analogy:

##### Acute oral toxicity

Parameter : LD50  
Exposure route : Oral  
Species : Rat  
Effective dose : > 3000 mg/kg

##### Acute dermal toxicity

Parameter : LD50  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 3000 mg/kg

#### Irritant and corrosive effects

##### Primary irritation to the skin

Parameter : Primary irritation to the skin ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Species : Rabbit  
Result : Not an irritant  
Parameter : Primary irritation to the skin ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )  
Species : Rabbit  
Result : Not an irritant

##### Irritation to eyes

Parameter : Irritation to eyes ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Species : Rabbit  
Result : Risk of serious damage to eyes  
Method : OECD 405  
Parameter : Irritation to eyes ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )  
Species : Rabbit  
Result : Not an irritant

#### Sensitisation

##### In case of skin contact

Parameter : Skin sensitisation ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Species : Guinea pig  
Result : Not sensitising.  
Method : OECD 406  
Parameter : Skin sensitisation ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )  
Result : Not sensitising.

##### In case of inhalation

Parameter : Sensitisation to the respiratory tract ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )

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Result : Not sensitising.

## Repeated dose toxicity (subacute, subchronic, chronic)

### Subacute oral toxicity

Parameter : NOAEL(C) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Exposure route : Oral  
Species : Rat  
Effective dose : = 125 mg/kg

### Subacute dermal toxicity

Parameter : NOAEL(C) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Exposure route : Dermal  
Effective dose : = 1250 mg/kg  
Exposure time : 1 d

### Subacute inhalation toxicity

Parameter : NOAEC ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Exposure route : Inhalation  
Effective dose : = 214 mg/m<sup>3</sup>  
Exposure time : 1 d

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

### Carcinogenicity

Parameter : Carcinogenicity ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Test result : Negative.  
Parameter : NOAEL(C) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Exposure route : Oral  
Species : Rat  
Effective dose : = 30 mg/kg  
Parameter : Carcinogenicity ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )  
Test result : Negative.

### Germ cell mutagenicity

#### In vitro mutagenicity

Parameter : In vitro mutagenicity ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Test result : Ames test negative.  
Parameter : Gene-mutations microorganisms ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )  
Test result : Negative.

#### In vivo mutagenicity

Parameter : In vivo mutagenicity ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Test result : Negative.

### Reproductive toxicity

#### Developmental toxicity/teratogenicity

##### One generation reproduction toxicity test

Parameter : One generation reproduction toxicity test ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Exposure route : Oral  
Species : Rat  
Effective dose : = 30 mg/kg  
Method : OECD 421  
Parameter : NOAEL(C) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Exposure route : Oral  
Species : Rat  
Effective dose : = 30 mg/kg  
Test result : Questionable.  
Parameter : NOAEL(C) ( Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene ; CAS No. : 68411-46-1 )

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Exposure route : Oral  
Species : Rat  
Effective dose : = 18 mg/kg/d  
Test result : Questionable.  
Method : OECD 443  
Source : Published on the ECHA website  
Parameter : One generation reproduction toxicity test ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )  
Test result : Negative.

### STOT-single exposure

#### STOT SE 1 and 2

Parameter : NOAEL(C) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Exposure route : Oral  
Species : Rat  
Effective dose : = 30 mg/kg

### 11.2 Information on other hazards

No information available.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

Parameter : LC50 ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : = 4,4 mg/l  
Exposure time : 96 h  
Method : OECD 203  
Parameter : LC50 ( Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene ; CAS No. : 68411-46-1 )  
Species : Fish  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : > 71 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )  
Species : Brachydanio rerio (Zebra-fish)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : > 100 mg/l  
Exposure time : 96 h  
Method : OECD 203

##### Chronic (long-term) fish toxicity

Parameter : NOEC ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : = 0,0017 mg/l  
Exposure time : 97 d  
Evaluation : Very toxic to fish.  
Method : OECD 210

##### Acute (short-term) daphnia toxicity

Parameter : EC50 ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Species : Daphnia magna (Big water flea)

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Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : = 75 mg  
Exposure time : 48 h  
Method : OECD 202  
Parameter : EC50 ( Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene ; CAS No. : 68411-46-1 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : = 51 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : > 100 mg/l  
Exposure time : 48 h  
Method : OECD 202

#### Chronic (long-term) daphnia toxicity

Parameter : NOEC ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : = 0,4 mg/l  
Exposure time : 21 d  
Parameter : NOEC ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : > 1 mg/l  
Exposure time : 21 d  
Method : OECD 211

#### Acute (short-term) algae toxicity

Parameter : EC50 ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Species : Scenedesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 240 mg/l  
Exposure time : 72 h  
Parameter : EC50 ( Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene ; CAS No. : 68411-46-1 )  
Species : Algae  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 100 mg/l  
Exposure time : 72 h  
Parameter : EC50 ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 100 mg/l  
Exposure time : 72 h  
Method : OECD 201  
Parameter : EC10 ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 100 mg/l  
Exposure time : 72 h  
Method : OECD 201

#### Bacteria toxicity

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Parameter : EC50 ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Species : Pseudomonas putida  
Evaluation parameter : Bacteria toxicity  
Effective dose : = 380 mg/l  
Exposure time : 16 h  
Method : OECD 209  
Parameter : EC50 ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )  
Species : Activated sludge  
Evaluation parameter : Bacteria toxicity  
Effective dose : > 100 mg/l  
Exposure time : 3 h  
Method : OECD 209

### 12.2 Persistence and degradability

#### Biodegradation

Parameter : Biodegradation ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Inoculum : Degree of elimination  
Effective dose : < 5 %  
Exposure time : 5 d  
Evaluation : Poorly biodegradable.  
Method : OECD 301D  
Parameter : Biodegradation ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )  
Evaluation : Not readily biodegradable (according to OECD criteria)  
Overall evaluation on the mixture: Not readily biodegradable (according to OECD criteria).

### 12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF) ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )  
Cyprinus carpio (Common Carp)  
Concentration : = 2551  
56 d  
Parameter : Partition coefficient: n-octanol/water ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Concentration : = 3,59  
Parameter : Log KOC ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )  
Partition coefficient n-octanol /water (log P O/W)  
Concentration : = 5

### 12.4 Mobility in soil

#### Adsorption/Desorption

Parameter : Adsorption coefficient ( O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0 )  
Inoculum : Mobility in soil  
Effective dose : = 5,3

### 12.5 Results of PBT and vPvB assessment

The mixture contains substances fulfilling the PBT-/vPvB criteria according to REACH Annex XIII : The product contains O,O,O-triphenyl phosphorothioate

### 12.6 Endocrine disrupting properties

Endocrine disrupting potential: None known.

### 12.7 Other adverse effects

This product does not contain nanoparticles.

### 12.8 Overall evaluation

If product enters soil, it will be mobile and may contaminate groundwater. In accordance with the required stability the product is poorly biodegradable.

## SECTION 13: Disposal considerations

# Safety Data Sheet

## according to Regulation (EC) No. 1907/2006 (REACH)



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Dispose according to legislation. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

### 13.1 Waste treatment methods

Send to a hazardous waste incinerator facility under observation of official regulations. Collect the waste separately. Evidence for disposal must be provided.

#### Product/Packaging disposal

##### Waste codes/waste designations according to EWC/AVV

###### Waste code product

If recycling is not possible, dispose of the product in accordance with local regulations. Dispose of contents / container to a recognised waste disposal facility.

###### Waste code packaging

Observe the local official regulations for disposal. Packaging that cannot be cleaned must be disposed of in the same way as the substance. Completely empty containers must be taken to a recognised waste disposal facility for recycling or disposal.

## SECTION 14: Transport information

### 14.1 UN number or ID number

UN 3077

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ( 2-Ethylhexyl zinc dithiophosphate · O,O,O-triphenyl phosphorothioate )

#### Sea transport (IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ( 2-Ethylhexyl zinc dithiophosphate · O,O,O-triphenyl phosphorothioate )

#### Air transport (ICAO-TI / IATA-DGR)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ( 2-Ethylhexyl zinc dithiophosphate · O,O,O-triphenyl phosphorothioate )

### 14.3 Transport hazard class(es)

#### Land transport (ADR/RID)

**Class(es) :** 9  
**Classification code :** M7  
**Hazard identification number (Kemler No.) :** 90  
**Tunnel restriction code :** E  
**Special provisions :** LQ 5 kg · E 1 · ADR : - (SP 375 <= 5 l/kg)  
**Hazard label(s) :** 9 / N

#### Sea transport (IMDG)

**Class(es) :** 9  
**EmS-No. :** F-A / S-F  
**Special provisions :** LQ 5 kg · E 1 · IMDG : - (SP 2.10.2.7 <= 5 l/kg)  
**Hazard label(s) :** 9 / N

#### Air transport (ICAO-TI / IATA-DGR)

**Class(es) :** 9  
**Special provisions :** E 1 · IATA : - (SP A197 <= 5 l/kg)  
**Hazard label(s) :** 9 / N

### 14.4 Packing group

III

### 14.5 Environmental hazards

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Land transport (ADR/RID) : Yes  
Sea transport (IMDG) : Yes (P)  
Air transport (ICAO-TI / IATA-DGR) : Yes

## 14.6 Special precautions for user

None

## 14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

## SECTION 15: Regulatory information

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

#### National regulations

##### Restrictions of occupation

Not relevant

##### Störfallverordnung

Category 1.03.2 : 200000 / 500000 kg

##### Emission control act (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 1 %

##### Water hazard class (WGK)

Class : 2 (Significant hazardous to water) Classification according to AwSV

##### Other regulations, restrictions and prohibition regulations

###### Switzerland

###### VOCV-Regulation

Volatile organic compounds (VOC) content in percent by weight : 0 %

##### Additional information

###### TSCA (Toxic Substances Control Act) - USA, United States of America

All chemical substances in this mixture are included on or are exempted from listing on the TSCA Inventory for Chemical Substances.

###### California Proposition 65 - State of California

No substances listed in the California Safe Drinking Water and Toxic Enforcement Act of 1986 ("California Proposition 65 List") with respect to the version valid at the date of compilation of this Material Safety Data Sheet, are intentionally added to our product.

### 15.2 Chemical safety assessment

No information available.

## SECTION 16: Other information

### 16.1 Indication of changes

02. Classification of the substance or mixture · 02. Label elements · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 03. Hazardous ingredients

### 16.2 Abbreviations and acronyms

None

### 16.3 Key literature references and sources for data

Includes supplements in accordance with Regulation (EU) 2020/878 of June 18, 2020

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The statement is derived from the properties of the single components.

# Safety Data Sheet

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



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## 16.5 Relevant H- and EUH-phrases (Number and full text)

H318	Causes serious eye damage.
H361f	Suspected of damaging fertility.
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.

## 16.6 Training advice

None

## 16.7 Additional information

None

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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.

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