

## Type 1063, 1065

Revision: 12.07.2022  
Replaces version from: 01.02.2021

## 2.2. Label elements

Labelling according to (EC) regulation no. 1272/2008 [CLP/GHS]

Hazard pictograms:



Signal words:

Warning

Hazard statements:

H410: Very toxic to aquatic life with long lasting effects

Precautionary statements:

P273: Avoid release to the environment  
P391: Collect spillage

## 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1 % or higher.

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.

## 3. Composition/information on ingredients

### 3.1. Substances

Information not relevant.

### 3.2. Mixtures

Chemical nature:

Solid lubricant, mineral oil, barium soap complex

Declaration of ingredients according to CLP (EC) No 1272/2008:

Identification	CAS-No. / EC-No. / Index-No. / Registration-No.	Classification	Concentration [% w/w]
Trizinc-bis(orthophosphate)	7779-90-0 231-944-3 030-011-00-6 01-2119485044-40-XXXX	Aquatic Acute 1 H400, Aquatic Chronic 1 H410	30 ... 50

1063, 1065\_000-578e-07.22

Identification	CAS-No. / EC-No. / Index-No. / Registration-No.	Classification	Concentration [% w/w]
Zinc oxide	1314-13-2 215-222-5 030-013-00-7 01-2119463881-32-XXXX	Aquatic Acute 1 H400, Aquatic Chronic 1 H410	2,5 ... 10
distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0 265-169-7 649-474-00-6 -	Not classified	10 ... 20
White mineral oil (petroleum)	8042-47-5 232-455-8 - 01-2119487078-27-XXXX	Not classified	10 ... 20
Distillates (petroleum), hydrotreated light naphthenic; Baseoil - unspecified	64742-53-6 265-156-6 649-466-00-2 -	Not classified	1 ... 10

The full wording of the hazard (H) phrases is given in section 16 of the sheet.

## 4. First aid measures

### 4.1. Description of first aid measures

Inhalation:	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.
Skin contact:	Remove contaminated clothing. If irritation develops, get medical attention. Wash off with soap and water. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. If eye irritation persists, consult a specialist
Ingestion:	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 information available.
Risks:	None known

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

Notes for the doctor:	Treat symptomatically.
-----------------------	------------------------

1063, 1065\_000-578e-07.22

## 5. Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Unsuitable extinguishing equipment: High volume water jet

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

Hazardous combustion products: Carbon oxides, oxides of phosphorus, metal oxides

### 5.3. Advice for firefighters

General information: Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Special protective equipment: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

## 6. Accidental release measures

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

Evacuate personnel to safe areas. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Do not breathe vapours, aerosols. Refer to protective measures listed in sections 7 and 8.

### 6.2. 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

Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

Any information on personal protection is given in section 8.

## 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

1063, 1065\_000-578e-07.22

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

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.

## 7.3. Specific end use(s)

Specific instructions for handling, not required.

# 8. Exposure controls/personal protection

## 8.1. Control parameters

### Occupational Exposure Limits:

Substance name	CAS-No.	Value type (Form of Exposure)	Control parameters	Basis
distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	TWA (inhalable fraction)	5 mg/m <sup>3</sup>	CH SUVA (2019-05-21)
	Further information: Carcinogenic Category 3, National Institute for Occupational Safety and Health, Deutsche Forschungsgemeinschaft			
White mineral oil (petroleum)	8042-47-5	TWA (inhalable dust)	5 mg/m <sup>3</sup>	CH SUVA (2016-01-01)
	Further information: National Institute for Occupational Safety and Health, Deutsche Forschungsgemeinschaft, Harm to the unborn child is not to be expected when the OEL-value is respected			
zinc oxide	1314-13-2	TWA (alveolate fume)	3 mg/m <sup>3</sup>	CH SUVA (2014-01-01)
	Further Information: National Institute for Occupational Safety and Health, Occupational Safety and Health Administration			
		STEL (alveolate fume)	3 mg/m <sup>3</sup>	CH SUVA (2014-01-01)
	Further Information: National Institute for Occupational Safety and Health, Occupational Safety and Health Administration			
Distillates (petroleum), hydrotreated light naphthenic; Baseoil - unspecified	64742-53-6	TWA (inhalable fraction)	5 mg/m <sup>3</sup>	CH SUVA (2019-05-21)
	Further information: Carcinogenic Category 3, National Institute for Occupational Safety and Health, Deutsche Forschungsgemeinschaft			

1063, 1065\_000-578e-07.22

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

Identification	Effects on	Route of exposure	Possible health hazards	Value
Trizinc-bis(orthophosphate)	Workers	Inhalation	Long-term - systemic effects	5 mg/m <sup>3</sup>
		Skin contact	Long-term - systemic effects	83 mg/kg
White mineral oil (petroleum)	Workers	Inhalation	Long-term - systemic effects	160 mg/m <sup>3</sup>
		Skin contact	Long-term - systemic effects	220 mg/kg
Zinc oxide	Workers	Inhalation	Long-term - systemic effects	5 mg/m <sup>3</sup>
			Long-term - local effects	0,5 mg/m <sup>3</sup>
		Skin contact	Long-term - systemic effects	83 mg/kg

**Predicted no-effect concentration - PNEC:**

Identification	Environmental compartment	Value
Trizinc bis(orthophosphate)	Fresh water	0,0206 mg/l
	Marine water	0,0061 mg/l
	Microbiological Activity in Sewage Treatment Systems	0,100 mg/l
	Fresh water sediment	117,8 mg/kg
	Marine water sediment	56,5 mg/kg
	Soil	35,6 mg/kg
Distillates (petroleum), hydrotreated light naphthenic; Baseoil - unspecified	Oral	9,33 mg/kg
Zinc oxide	Fresh water	0,0206 mg/l
	Marine water	0,0061 mg/l
	Microbiological Activity in Sewage Treatment Systems	0,100 mg/l
	Fresh water sediment	117,8 mg/kg
	Marine water sediment	56,5 mg/kg
	Soil	35,6 mg/kg

## 8.2. Exposure controls

### Engineering controls

None

### Personal protection

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

1063, 1065\_000-578e-07.22

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

Eye protection: Safety glasses with side-shields

Respiratory protection: Not required, except in case of aerosol formation  
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.  
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

## 9. Physical and chemical properties

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

Appearance:	paste
Colour:	white
Odour:	characteristic
Odour threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point:	No data available
Boiling range:	No data available
Flash point:	Not applicable
Evaporation rate:	No data available
Flammability of solids and gases:	Combustible solids
Lower inflammability limit:	No data available
Upper inflammability limit:	No data available
Lower explosive limit:	No data available
Upper explosive limit:	No data available
Vapour pressure:	< 0,001 hPa
Vapour density:	No data available
Relative density:	1,440 (20°C), Reference substance: Water The value is calculated
Density:	1.44 g/cm <sup>3</sup> (20°C)
Solubility in water:	Insoluble
Solubility in other solvents:	No data available
Partition coefficient:	
n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, dynamic:	No data available
Viscosity, kinematic:	Not applicable

1063, 1065\_000-578e-07.22

## 9.2. Other information

Explosive properties:	Not explosive
Oxidising properties:	No data available
Self-ignition:	No data available
Evaporation rate:	No data available
Sublimation point:	No data available

## 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

No dangerous reaction known under conditions of normal use.

### 10.4. Conditions to avoid

No conditions to be specially mentioned.

### 10.5. Incompatible materials

No materials to be especially mentioned.

### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

## 11. Toxicological Information

### 11.1. Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity LD50:	This information is not available.
Acute inhalative toxicity LC50:	This information is not available.
Acute dermal toxicity LD50:	This information is not available.

##### Components:

#### **Trizinc bis(orthophosphate):**

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

1063, 1065\_000-578e-07.22



**Zinc oxide:**

Acute oral toxicity:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity:	LC50 (Rat): > 5,7 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 GLP: yes Assessment: The substance or mixture has no acute dermal toxicity

**Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Acute oral toxicity:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401
Acute dermal toxicity:	LD50 (Rabbit): > 5.000 mg/kg Method: OECD Test Guideline 402

**White mineral oil (petroleum):**

Acute oral toxicity:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401 GLP: yes
Acute inhalation toxicity:	LC50 (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity:	LD50 (Rabbit): > 2.000 mg/kg Method: OECD Test Guideline 402 GLP: yes Assessment: The substance or mixture has no acute dermal toxicity

**Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified:**

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

**Skin corrosion/irritation**

Product:

This information is not available.

1063, 1065\_000-578e-07.22

Components:

**Trizinc bis(orthophosphate):**

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

**Zinc oxide:**

Species:	Rabbit
Assessment:	No skin irritation
Method:	OECD Test Guideline 404
Result:	No skin irritation

**Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Species:	Rabbit
Assessment:	No skin irritation
Method:	OECD Test Guideline 404
Result:	No skin irritation
GLP:	yes

**White mineral oil (petroleum):**

Species:	Rabbit
Assessment:	No skin irritation
Method:	OECD Test Guideline 404
Result:	No skin irritation
GLP:	yes

**Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified:**

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

**Serious eye damage/irritation**

Product:

This information is not available.

Components:

**Trizinc bis(orthophosphate):**

Species:	Rabbit
Assessment:	No eye irritation
Method:	OECD Test Guideline 405
Result:	No eye irritation
GLP:	yes

**Zinc oxide:**

Species:	Rabbit
Assessment:	No eye irritation
Method:	OECD Test Guideline 405
Result:	No eye irritation
GLP:	yes

1063, 1065\_000-578e-07.22

**Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Species: Rabbit  
Assessment: No eye irritation  
Method: OECD Test Guideline 405  
Result: No eye irritation  
GLP: yes

**White mineral oil (petroleum):**

Species: Rabbit  
Assessment: No eye irritation  
Method: OECD Test Guideline 405  
Result: No eye irritation  
GLP: yes

**Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified:**

Species: Rabbit  
Assessment: No eye irritation  
Method: OECD Test Guideline 405  
Result: No eye irritation

**Respiratory or skin sensitisation**

Product:

This information is not available.

Components:

**Trizinc bis(orthophosphate):**

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

**Zinc oxide:**

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

**Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

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

1063, 1065\_000-578e-07.22

**White mineral oil (petroleum):**

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

**Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified:**

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

**Germ cell mutagenicity**

<u>Product:</u>	
Genotoxicity in vitro:	Remarks: No data available
Genotoxicity in vivo:	Remarks: No data available

Components:

**Trizinc bis(orthophosphate):**

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

**Zinc oxide:**

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

**Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Genotoxicity in vitro:	Test system: Salmonella typhimurium
	Metabolic activation: with and without metabolic activation
	Method: OECD Test Guideline 471
	Result: negative

Genotoxicity in vivo:	Species: Mouse
	Application Route: Oral
	Method: OECD Test Guideline 474
	Result: negative

**White mineral oil (petroleum):**

Genotoxicity in vitro:	Test Type: Ames test
	Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
	Result: negative
	GLP: yes

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

1063, 1065\_000-578e-07.22

### **Carcinogenicity**

Product:

No data available

Components:

**Trizinc bis(orthophosphate):**

Carcinogenicity - Assessment: Not classifiable as a human carcinogen.

**Zinc oxide:**

Carcinogenicity - Assessment: Not classifiable as a human carcinogen.

**Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Species: Mouse  
Application Route: Dermal  
Method: OECD Test Guideline 451  
Result: negative

**White mineral oil (petroleum):**

Carcinogenicity - Assessment: No evidence of carcinogenicity in animal studies.

### **Reproductive toxicity**

Product:

Effects on fertility: No data available  
Effects on foetal development: No data available

Components:

**Trizinc bis(orthophosphate):**

Reproductive toxicity - Assessment: Fertility: No toxicity to reproduction  
Teratogenicity: No effects on or via lactation

**Zinc oxide:**

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

**Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Effects on foetal development: Species: Rat  
Application Route: Dermal  
General Toxicity Maternal: NOAEL: 30 mg/kg body weight  
Developmental Toxicity: NOAEL: 30 mg/kg body weight  
Method: OECD Test Guideline 414

**White mineral oil (petroleum):**

Reproductive toxicity - Assessment: Fertility: No toxicity to reproduction  
Teratogenicity: No effects on or via lactation

1063, 1065\_000-578e-07.22

#### STOT - Single exposure

Components:

**Zinc oxide:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

**White mineral oil (petroleum):**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### STOT - Repeated exposure

Components:

**Zinc oxide:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**White mineral oil (petroleum):**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### Repeated dose toxicity

Product:

This information is not available.

Components:

**White mineral oil (petroleum):**

NOAEL: 1.800 mg/kg

Exposure time: 90 d

#### Aspiration hazard

Product:

This information is not available.

Components:

**Trizinc bis(orthophosphate):**

No aspiration toxicity classification

**Zinc oxide:**

No aspiration toxicity classification

**Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

No aspiration toxicity classification

**White mineral oil (petroleum):**

No aspiration toxicity classification

1063, 1065\_000-578e-07.22

**Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified:**  
No aspiration toxicity classification

#### Further information

Product:

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

## 12. Ecological information

### 12.1. Toxicity

Product:

Toxicity to fish:	May cause long-term adverse effects in the aquatic environment.
Toxicity to daphnia and other aquatic invertebrates:	No data available
Toxicity to algae/aquatic plants:	No data available
Toxicity to microorganisms:	No data available

Components:

**Trizinc bis(orthophosphate):**

Toxicity to fish:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.14 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates:	EC50 (Daphnia magna (Water flea)): > 1.08 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants:	EC50 (Pseudokirchneriella subcapitata (green algae)): >0.136 mg/l Exposure time: 72 h Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity): 1

M-Factor (Chronic aquatic toxicity): 1

**Zinc oxide:**

Toxicity to fish:	LC50 (Danio rerio (zebra fish)): 1.55 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates:	EC50 (Daphnia magna (Water flea)): 1 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202

1063, 1065\_000-578e-07.22

Toxicity to algae/aquatic plants: EC50 (*Pseudokirchneriella subcapitata* (green algae)): 0,136 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

M-Factor (Acute aquatic toxicity): 1

Toxicity to microorganisms: EC50 (activated sludge): > 1.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): 0,04 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): 1

**Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Toxicity to fish: LC50 (*Pimephales promelas* (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates: EC50 (*Daphnia magna* (Water flea)): > 10.000 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants: NOEC (*Pseudokirchneriella subcapitata* (green algae)): > 100mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC: 10 mg/l  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)

**White mineral oil (petroleum):**

Toxicity to fish: LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

1063, 1065\_000-578e-07.22



Toxicity to daphnia and other  
aquatic invertebrates:

EC50 (Daphnia (water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202

Toxicity to daphnia and other aquatic  
invertebrates (Chronic toxicity):

NOEC:  $\geq$  1.000 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

**Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified:**

Toxicity to daphnia and other  
aquatic invertebrates:

EC50 (Daphnia magna (Water flea)): > 10.000 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202

## 12.2. Persistence and degradability

Product:

Biodegradability: No data available  
Physico-chemical removability: No data available

Components:

**Trizinc bis(orthophosphate):**

Biodegradability: The methods for determining biodegradability are not applicable to inorganic substances.

**Zinc oxide:**

Biodegradability: The methods for determining biodegradability are not applicable to inorganic substances.

**Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Biodegradability: Test Type: aerobic  
Inoculum: activated sludge  
Result: Not rapidly biodegradable  
Biodegradation: 31 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes

**White mineral oil (petroleum):**

Biodegradability: Test Type: Primary biodegradation  
Inoculum: activated sludge  
Result: Not rapidly biodegradable  
Biodegradation: 31 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

1063, 1065\_000-578e-07.22

### 12.3. Bioaccumulative potential

Product:

Bioaccumulation:

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Components:

**White mineral oil (petroleum):**

Partition coefficient:

n-octanol/water:

Pow: > 6

### 12.4. Mobility in soil

Product:

Mobility:

No data available

Distribution among environmental

compartments:

No data available

### 12.5. Results of PBT and vPvB assessment

Components:

**Trizinc bis(orthophosphate):**

Assessment:

Not applicable

**Zinc oxide:**

Assessment:

Not applicable

**White mineral oil (petroleum):**

Assessment:

Non-classified PBT substance. Non-classified vPvB substance.

### 12.6. Other adverse effects

Product:

Additional ecological information:

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 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.

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.

1063, 1065\_000-578e-07.22

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

## 14. Transport information

### 14.1. UN 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. (Zinc Phosphate, zinc oxide)
ADR:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Phosphate, zinc oxide)
RID:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Phosphate, zinc oxide)
IMDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Phosphate, zinc oxide)
IATA:	Environmentally hazardous substance, solid, n.o.s. (Zinc Phosphate, zinc oxide)

### 14.3. Transport hazard class(es)

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

### 14.4. Packing group

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

1063, 1065\_000-578e-07.22

**ADR**

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

**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

**IATA (Passenger)**

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

**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

**IATA (Cargo)**

Environmentally hazardous: yes

1063, 1065\_000-578e-07.22

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

Not applicable for product as supplied.

### 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, preparations and articles (Annex XVII):

Not applicable

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

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV) (EU. REACH - Annex XIV):

Not applicable

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

PIC Ordinance, ChemPICO (814.82):

Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors:

Not applicable

Ordinance on Protection against Major Accidents Threshold quantity according to Major Accidents Ordinance (MAO 814.012):

2.000 kg

Volatile organic compounds:

Law on the incentive tax for volatile organic compounds (VOCV)  
Volatile organic compounds (VOC) content: < 0.01 %  
no VOC duties

#### Other regulations:

Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2): Young people undergoing basic vocational training may only work with this product if the relevant training ordinance makes provision for them to do so with a view to enabling them to achieve their training objectives and if the preconditions for the training plan have been met and the applicable age restrictions have been complied with. Young people who are not completing any basic vocational training are not permitted to work with this product. Employees of either sex who are under 18 years old are classed as young people.

1063, 1065\_000-578e-07.22

## 15.2. Chemical Safety Assessment

This information is not available.

## 16. Other information

### Text of hazard (H) indications

H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

### Legend

ADR	European Agreement concerning the carriage of Dangerous goods by Road
CAS-no.	Chemical Abstracts Service
CLP	EC Regulation 1272/2008
DNEL	Derived No Effect Level
EC50	Effective concentration (required to induce a 50% effect)
EC-no.	Identifier in ESIS (European archive of existing substances)
EMS	Emergency Schedule
GHS	Globally Harmonized System of classification and labeling of chemicals
GLP	Good Laboratory Practice
IATA	International Air Transport Association Dangerous Goods Regulation
IMDG	International Maritime Code for dangerous goods
IMO	International Maritime Organization
Index-no.	Identifier in Annex VI of CLP
LC50	Lethal Concentration 50%
LD50	Lethal dose 50%
OEL	Occupational Exposure Level
PBT	Persistent, bioaccumulative, and toxic as REACH Regulation
PNEC	Predicted no effect concentration
REACH	EC Regulation 1907/2006
RID	Regulation concerning the international transport of dangerous goods by train
TLV	Threshold Limit Value
TWA	Time-weighted average exposure limit
VOC	Volatile organic Compounds
vPvB	Very Persistent and very Bioaccumulative as for REACH Regulation

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

1063, 1065\_000-578e-07.22