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**Conforms to EU Regulation 1907/2006/EC as amended.**

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

### **1.1 Product identifier**

Trade name : Performax™ PM3606 Water Treatment Chemical  
 ™ Trademark, Solenis or its subsidiaries or affiliates,  
 registered in various countries

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

Use of the Substance/Mixture : Water treatment chemical


<b>1.3 Details of the supplier of the safety data sheet</b> Solenis Pesetastraat 62 2991 XT Barendrecht Netherlands  Solenis UK Industries Limited P. O. Box 38, Cleckheaton Rd, Low Moor, Bradford, BD12 0JZ, United Kingdom  <b>E-mail address of person responsible for the SDS:</b> EHSPRODUCTSAFETYTEAM@solenis.com  <b>Product Information</b> Contact your local Solenis representative	<b>1.4 Emergency telephone number</b> +1-302-502-0991 , or contact your local emergency telephone number at 112
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## **SECTION 2: Hazards identification**

### **2.1 Classification of the substance or mixture**

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

Skin corrosion, Category 1	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.

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## 2.2 Label elements

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

Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.

Precautionary statements : **Prevention:**

P261 Avoid breathing mist or vapours.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### **Response:**

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

Hazardous components which must be listed on the label:

Tripotassium orthophosphate

Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate


potassium hydroxide

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1);

## 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.

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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

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Tripotassium orthophosphate	7778-53-2 231-907-1 01-2119971078-30-xxxx	Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system)	>= 3 - < 5
Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate	Not Assigned 701-079-0 01-2120227654-56-xxxx	Skin Sens. 1; H317	>= 2,5 - < 5
TOLYLTRIAZOLE, SODIUM SALT	64665-57-2 265-004-9 01-2119980062-42-xxxx	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 2; H411	>= 1 - < 2,5
potassium hydroxide	1310-58-3 215-181-3 01-2119487136-33-xxxx	Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318  specific concentration limit Skin Corr. 1A; H314 >= 5 % Skin Corr. 1B; H314 2 - < 5 % Skin Irrit. 2; H315 0,5 - < 2 % Eye Irrit. 2; H319 0,5 - < 2 %	>= 1 - < 2
Tetrapotassium pyrophosphate	7320-34-5 230-785-7 01-2119489369-18-xxxx	Eye Irrit. 2; H319	>= 1 - < 2,5
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247-	55965-84-9	Acute Tox. 3; H301 Acute Tox. 2; H330	>= 0 - < 0,0002

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500-7] and 2-methyl-2H- isothiazol-3-one [EC no. 220-239- 6] (3:1);		Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071  M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100  specific concentration limit Skin Corr. 1C; H314 >= 0,6 % Skin Irrit. 2; H315 0,06 - < 0,6 % Eye Irrit. 2; H319 0,06 - < 0,6 % Skin Sens. 1A; H317 >= 0,0015 % Eye Dam. 1; H318 >= 0,6 %	
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For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice	: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	: Move to fresh air. If breathed in, move person into fresh air. Keep patient warm and at rest. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: Remove contaminated clothing. If irritation develops, get medical attention. If on skin, rinse well with water.

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Wash contaminated clothing before re-use.

- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.
- If swallowed : Get medical attention immediately.  
Do NOT induce vomiting.  
Rinse mouth with water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

- Symptoms : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:  
stomach or intestinal upset (nausea, vomiting, diarrhea)  
irritation (nose, throat, airways)  
Cough  
lung edema (fluid buildup in the lung tissue)
- Risks : May cause an allergic skin reaction.  
Causes serious eye damage.  
Causes severe burns.

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


- Treatment : No hazards which require special first aid measures.

---

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet

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## 5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
nitrogen oxides (NO<sub>x</sub>)  
toxic fumes  
Phosphorus compounds  
potassium oxide  
Oxides of phosphorus  
hydrogen cyanide in reducing atmospheres

## 5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

---

## SECTION 6: Accidental release measures

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

- Personal precautions : Use personal protective equipment.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
Comply with all applicable federal, state, and local regulations.

### 6.2 Environmental precautions


- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
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 : Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Do not breathe vapours/dust.  
 Do not smoke.  
 Container hazardous when empty.  
 Avoid exposure - obtain special instructions before use.  
 Avoid contact with skin and eyes.  
 Smoking, eating and drinking should be prohibited in the application area.  
 For personal protection see section 8.  
 Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : Wash hands before breaks and at the end of workday. When using do not eat or drink. Ensure that eyewash stations and safety showers are close to the workstation location. When using do not smoke.

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

- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)


- Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
potassium hydroxide	1310-58-3	STEL	2 mg/m <sup>3</sup>	GB EH40
mixture of: 5-chloro-2-methyl-4-	55965-84-9	TWA	0,076 mg/m <sup>3</sup>	SUPLR EXP

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isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H- isothiazol-3-one [EC no. 220-239-6] (3:1);				
		STEL	0,23 mg/m3	SUPLR EXP
	Further information: 5-chloro-2-methyl-2H-isothiazolin-3-one			
		TWA	1,5 mg/m3	SUPLR EXP
		STEL	4,5 mg/m3	SUPLR EXP
	Further information: 2-methyl-2H-isothiazolin-3-one			

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

Substance name	End Use	Exposure routes	Potential health effects	Value
potassium hydroxide	Workers	Inhalation	Long-term local effects	1 mg/m3
Remarks:	respiratory tract irritation			
	General population	Inhalation	Long-term local effects	1 mg/m3
Remarks:	respiratory tract irritation			

## 8.2 Exposure controls

### Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.


### Personal protective equipment

Eye protection : Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.  
Maintain eye wash station in immediate work area.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.


Skin and body protection : Wear as appropriate:  
Impervious clothing  
Chemical resistant apron  
Safety shoes  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Wear resistant gloves (consult your safety equipment supplier).  
Discard gloves that show tears, pinholes, or signs of wear.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: amber
Odour	: No data available
Odour Threshold	: No data available
Melting point/freezing point	: < -4 °C
Boiling point/boiling range	: > 100 °C
Flammability	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Flash point	: Not applicable
Decomposition temperature	: No data available
pH	: > 11,8
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Solubility(ies)	
Water solubility	: completely miscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Vapour pressure	: 24 hPa (20 °C) Calculated Vapor Pressure
Relative density	: 1,23 (25 °C)
Density	: 1,23 g/cm3 (25 °C)

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Relative vapour density : No data available

Particle characteristics  
Assessment : No data available

Particle size : No data available

Particle Size Distribution : No data available

Dustiness : No data available

Shape : No data available

Crystallinity : No data available

Surface treatment  
/Coatings : No data available

## 9.2 Other information

Oxidizing properties : No data available

Self-ignition : No data available

Evaporation rate : No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions


Hazardous reactions : Product will not undergo hazardous polymerization.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Acids  
Alcohols  
Amines  
chlorinated solvents  
halogenated hydrocarbons

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Metals  
 Reducing agents  
 Strong oxidizing agents  
 Zinc

This product should not be used in conjunction with trimethylol propane or trimethylol propane-derived products. There is a possibility that bicyclic phosphates or phosphites can be produced as a result of the thermal decomposition of this product in combination with trimethylol propane, trimethylol propane-derived products or their corresponding trimethylol propane alkane homologs. Bicyclic phosphates and phosphites are a class of materials with acute neurotoxic properties which produce characteristic convulsive seizures in test animals.

#### 10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon monoxide  
 Carbon dioxide (CO<sub>2</sub>)  
 Nitrogen oxides (NO<sub>x</sub>)  
 toxic fumes  
 potassium oxide  
 Oxides of phosphorus  
 Hydrogen cyanide (hydrocyanic acid)

---

## SECTION 11: Toxicological information

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

#### Acute toxicity

Not classified based on available information.


#### Components:

##### **Tripotassium orthophosphate:**

Acute oral toxicity : LD<sub>50</sub> (Rat): 4.260 mg/kg

Acute inhalation toxicity : LC<sub>50</sub> (Rat): > 0,83 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Assessment: Not classified as acutely toxic by inhalation under GHS.  
 Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD<sub>50</sub> (Rabbit): > 7.970 mg/kg  
 Test substance: (as aqueous solution)

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**Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate:**

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

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402

**TOLYLTRIAZOLE, SODIUM SALT:**

Acute oral toxicity : LD50 (Rat, female): 735 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Assessment: Not classified as acutely toxic by dermal absorption under GHS.

**potassium hydroxide:**

Acute oral toxicity : LD50 (Rat): 333 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 1.260 mg/kg  
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

**mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1);:**

Acute oral toxicity : LD50 (Rat): > 66 mg/kg

Acute inhalation toxicity : LC 50 (Rat): 0,33 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Remarks: Aerosol

Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rabbit): 141 mg/kg

**Skin corrosion/irritation**

Causes severe burns.


**Product:**

Remarks : May cause skin irritation in susceptible persons.  
Causes severe skin burns and eye damage.  
The feeling of irritation or pain may be delayed.

**Components:**

**Tripotassium orthophosphate:**

Species : reconstructed human epidermis (RhE)

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Method : OECD Test Guideline 439  
 Result : Not irritating to skin

**Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate:**

Species : Rabbit  
 Method : OECD Test Guideline 404  
 Result : Mildly irritating to skin

**TOLYLTRIAZOLE, SODIUM SALT:**

Result : Causes burns.

**potassium hydroxide:**

Result : Corrosive to skin

**Tetrapotassium pyrophosphate:**

Result : Mildly irritating to skin

**mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1);:**

Species : Rabbit  
 Result : Corrosive to skin

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Remarks : May cause irreversible eye damage.

**Components:**

**Tripotassium orthophosphate:**

Result : Corrosive to eyes


**Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate:**

Species : Rabbit  
 Result : Mildly irritating to eyes

**TOLYLTRIAZOLE, SODIUM SALT:**

Result : Corrosive to eyes

**potassium hydroxide:**

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Result : Corrosive to eyes

**Tetrapotassium pyrophosphate:**

Result : Irritating to eyes

**mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1);:**

Species : Rabbit

Result : Corrosive to eyes

**Respiratory or skin sensitisation**

**Skin sensitisation**

May cause an allergic skin reaction.

**Respiratory sensitisation**

Not classified based on available information.

**Product:**

Remarks : May cause allergic skin reaction.

**Components:**

**Tripotassium orthophosphate:**

Test Type : Local lymph node assay (LLNA)

Species : Mouse

Method : OECD Test Guideline 429

Remarks : Information given is based on data obtained from similar substances.

**Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate:**

Test Type : Maximisation Test

Species : Guinea pig

Method : OECD Test Guideline 406


Result : May cause sensitisation by skin contact.

**mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1);:**

Result : Probability or evidence of high skin sensitisation rate in humans

**Germ cell mutagenicity**

Not classified based on available information.

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### **Components:**

#### **Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate:**

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

Genotoxicity in vivo : Test Type: chromosome aberration assay  
 Species: Mouse  
 Cell type: Bone marrow  
 Method: OECD Test Guideline 474  
 Result: negative  
 GLP: yes

#### **Carcinogenicity**

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

#### **STOT - single exposure**

Not classified based on available information.

### **Components:**

#### **Tripotassium orthophosphate:**

Exposure routes : Inhalation  
 Target Organs : Respiratory Tract  
 Assessment : May cause respiratory irritation.

#### **STOT - repeated exposure**

Not classified based on available information.

#### **Aspiration toxicity**


Not classified based on available information.

## **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.

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## Further information

### Product:

Remarks : No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : LC50 : 707 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC0 (Daphnia (water flea)): 2.500 mg/l  
Exposure time: 48 h

#### **Ecotoxicology Assessment**

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

#### Components:


##### **Tripotassium orthophosphate:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l

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End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201  
 GLP: yes  
 Remarks: Information given is based on data obtained from similar substances.

**Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate:**

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

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l  
 Exposure time: 48 h  
 Test Type: static test  
 Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 100 mg/l  
 Exposure time: 21 d  
 Species: Daphnia magna (Water flea)  
 Test Type: semi-static test  
 Method: OECD Test Guideline 211

**TOLYLTRIAZOLE, SODIUM SALT:**


Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 173 mg/l  
 Exposure time: 96 h

LC50 (Oncorhynchus mykiss (rainbow trout)): ca. 25 mg/l  
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 280 mg/l  
 Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 26,2 mg/l  
 Exposure time: 72 h  
 Test Type: Growth inhibition

EbC50 (Pseudokirchneriella subcapitata (green algae)): 32 mg/l

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Exposure time: 96 h  
Test Type: Growth inhibition

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 0,4 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
Remarks: Information given is based on data obtained from similar substances.

#### potassium hydroxide:

##### Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

#### mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1);:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,19 mg/l  
Exposure time: 96 h

LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,28 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,16 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,027 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 100


Toxicity to microorganisms : EC50 (activated sludge): 4,5 mg/l  
Test Type: Respiration inhibition

M-Factor (Chronic aquatic toxicity) : 100

## 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: Not readily biodegradable.

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### **Components:**

#### **Tripotassium orthophosphate:**

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

#### **Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate:**

Biodegradability : Result: Not readily biodegradable.

#### **TOLYLTRIAZOLE, SODIUM SALT:**

Biodegradability : Result: Not readily biodegradable.  
Method: OECD Test Guideline 301F

#### **potassium hydroxide:**

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

#### **mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1);:**

Biodegradability : Biodegradation: 30 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
Remarks: Not readily biodegradable.

## **12.3 Bioaccumulative potential**

### **Product:**

Bioaccumulation : Remarks: The bioaccumulation potential cannot be determined.

### **Components:**

#### **TOLYLTRIAZOLE, SODIUM SALT:**


Partition coefficient: n-octanol/water : log Pow: 0,658

#### **mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1);:**

Partition coefficient: n-octanol/water : log Pow: <= 0,71  
Method: OECD Test Guideline 117

## **12.4 Mobility in soil**

No data available

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## 12.5 Results of PBT and vPvB assessment

### **Product:**

Assessment : 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..

## 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 : No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
  
Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.


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## SECTION 14: Transport information

### 14.1 UN number or ID number

**ADN:** UN3267

**ADR:** UN3267

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**IATA-DGR:** UN3267

**IMDG-Code:** UN3267

**RID:** UN3267

#### 14.2 UN proper shipping name

**ADN:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (TRIAZOLE DERIVATIVE)

**ADR:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (TRIAZOLE DERIVATIVE)

**IATA-DGR:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (TRIAZOLE DERIVATIVE)

**IMDG-Code:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (TRIAZOLE DERIVATIVE)

**RID:** Corrosive liquid, basic, organic, n.o.s. (TRIAZOLE DERIVATIVE)

#### 14.3 Transport hazard class(es)

**ADN:** 8

**ADR:** 8

**IATA-DGR:** 8

**IMDG-Code:** 8

**RID:** 8

#### 14.4 Packing group

**ADN:** III

**ADR:** III

**IATA-DGR:** III

**IMDG-Code:** III

**RID:** III

#### 14.5 Environmental hazards

**ADN:** Not applicable

**ADR:** Not applicable

**IATA-DGR:** Not applicable

**IMDG-Code:** Not applicable


**RID:** Not applicable

#### 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

Not applicable for product as supplied.

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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

## 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 3
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	: Not applicable
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	Not applicable

#### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

#### The components of this product are reported in the following inventories:

TCSI	: On the inventory, or in compliance with the inventory
TSCA	: Product contains substance(s) not listed on TSCA inventory.
AIIC	: Not in compliance with the inventory
DSL	: This product contains one or more components that are not on the Canadian DSL and have annual quantity limits.

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ENCS	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory

## 15.2 Chemical safety assessment

No data available

## SECTION 16: Other information

### Further information

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### Classification of the mixture:

Skin Corr. 1	H314
Eye Dam. 1	H318
Skin Sens. 1	H317

### Classification procedure:


Based on product data or assessment
Based on product data or assessment
Calculation method

### Full text of H-Statements

H290	:	May be corrosive to metals.
H301	:	Toxic if swallowed.
H302	:	Harmful if swallowed.
H310	:	Fatal in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H330	:	Fatal if inhaled.
H335	:	May cause respiratory irritation.
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.

### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Met. Corr.	:	Corrosive to metals
Skin Corr.	:	Skin corrosion
Skin Sens.	:	Skin sensitisation
STOT SE	:	Specific target organ toxicity - single exposure

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GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
 SUPLR EXP : Supplier-recommended exposure guidelines  
 GB EH40 / STEL : Short-term exposure limit (15-minute reference period)  
 SUPLR EXP / STEL : Short term exposure limit  
 SUPLR EXP / TWA : 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; AIIC - 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

Sources of key data used to compile the Safety Data Sheet


Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is

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GB / EN