

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
9.0	06.06.2023	10593794-00009	Date of first issue: 11.06.2010

---

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

#### 1.1 Product identifier

Trade name : 1C AQUA PRIMER - 3 KG  
Product code : 5866107103

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

Use of the Sub-  
stance/Mixture : Primers  
Professional use product  
Recommended restrictions  
on use : Not applicable

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

Company : Adolf Wuerth GmbH & Co. KG  
Reinhold-Würth-Str. 12-17  
74653 Künzelsau  
Telephone : +49 794015 0  
Telefax : +49 794015 10 00  
E-mail address of person  
responsible for the SDS : isi@wuerth.com

#### 1.4 Emergency telephone number

+49 (0)6132 – 84463

---

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

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

#### 2.2 Label elements

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

Hazard pictograms :



# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version 9.0      Revision Date: 06.06.2023      SDS Number: 10593794-00009      Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

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

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

**Response:**  
P391 Collect spillage.

**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Additional Labelling

EUH208 Contains Reaction mass 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). May produce an allergic reaction.

### 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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Substances with a workplace exposure limit :			
Barium sulfate	7727-43-7 231-784-4		>= 1 - < 10
2-Butoxyethanol	111-76-2 203-905-0 603-014-00-0 01-2119475108-36	Acute Tox. 4; H302 Acute Tox. 3; H331 Skin Irrit. 2; H315 Eye Irrit. 2; H319 <hr/> Acute toxicity estimate	>= 1 - < 10

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version  
9.0

Revision Date:  
06.06.2023

SDS Number:  
10593794-00009

Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

		Acute oral toxicity: 1.200 mg/kg Acute inhalation toxicity (vapour): 3 mg/l	
Trizinc bis(orthophosphate)	7779-90-0 231-944-3 030-011-00-6 01-2119485044-40	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 <hr/> M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	$\geq 2,5 - < 10$
Butan-2-ol	78-92-2 201-158-5 603-127-00-5	Flam. Liq. 3; H226 Eye Irrit. 2; H319 STOT SE 3; H336 STOT SE 3; H335	$\geq 1 - < 10$
Zinc oxide	1314-13-2 215-222-5 030-013-00-7 01-2119463881-32	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 <hr/> M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	$\geq 0,25 - < 1$
Ammonium hydroxide	1336-21-6 215-647-6 007-001-01-2	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 EUH071 <hr/> M-Factor (Acute aquatic toxicity): 1 <hr/> specific concentration limit STOT SE 3; H335 $\geq 5\%$ <hr/> Acute toxicity estimate  Acute oral toxicity: 350 mg/kg	$\geq 0,1 - < 0,25$
Molybdenum trioxide	1313-27-5 215-204-7	Eye Irrit. 2; H319 Carc. 2; H351	$\geq 0,1 - < 1$

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version 9.0      Revision Date: 06.06.2023      SDS Number: 10593794-00009      Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

	042-001-00-9	STOT SE 3; H335	
Reaction mass 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)	55965-84-9 613-167-00-5	Acute Tox. 3; H301 Acute Tox. 2; H330 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 % EUH071 >= 0,6 %  Acute toxicity estimate  Acute oral toxicity: 64 mg/kg Acute inhalation toxicity (dust/mist): 0,171 mg/l Acute dermal toxicity: 87,12 mg/kg	<= 0,0002

For explanation of abbreviations see section 16.

### Alternative CAS Numbers for some regions

Chemical name	Alternative CAS Number(s)
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-	2682-20-4, 26172-55-4

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
9.0	06.06.2023	10593794-00009	Date of first issue: 11.06.2010

methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
--

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- If inhaled : If inhaled, remove to fresh air.  
Get medical attention.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water.  
Remove contaminated clothing and shoes.  
Get medical attention.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : Flush eyes with water as a precaution.  
Get medical attention if irritation develops and persists.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention if symptoms occur.  
Rinse mouth thoroughly with water.

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

None known.

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

- Treatment : Treat symptomatically and supportively.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Not applicable  
Will not burn
- Unsuitable extinguishing media : Not applicable  
Will not burn

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
9.0	06.06.2023	10593794-00009	Date of first issue: 11.06.2010

---

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

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Metal oxides  
Carbon oxides  
Sulphur oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

---

## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

### 6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.

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

Methods for cleaning up : Soak up with inert absorbent material.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.  
Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version 9.0      Revision Date: 06.06.2023      SDS Number: 10593794-00009      Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

---

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : Use only with adequate ventilation.
- Advice on safe handling : Do not get on skin or clothing.  
Avoid inhalation of vapour or mist.  
Do not swallow.  
Avoid contact with eyes.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Take care to prevent spills, waste and minimize release to the environment.
- Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

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

- Requirements for storage areas and containers : Keep in properly labelled containers. Store in accordance with the particular national regulations.
- Advice on common storage : No special restrictions on storage with other products.
- Storage class (TRGS 510) : 12
- Further information on storage stability : Protect from frost.

### 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
Talc	14807-96-6	AGW (Inhalable fraction)	10 mg/m <sup>3</sup>	DE TRGS 900

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version 9.0      Revision Date: 06.06.2023      SDS Number: 10593794-00009      Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

		Peak-limit: excursion factor (category): 2;(II)		
		AGW (Alveolate fraction)	1,25 mg/m <sup>3</sup>	DE TRGS 900
		Peak-limit: excursion factor (category): 2;(II)		
2-Butoxyethanol	111-76-2	TWA	20 ppm 98 mg/m <sup>3</sup>	2000/39/EC
		Further information: Identifies the possibility of significant uptake through the skin, Indicative		
		STEL	50 ppm 246 mg/m <sup>3</sup>	2000/39/EC
		Further information: Identifies the possibility of significant uptake through the skin, Indicative		
		AGW	10 ppm 49 mg/m <sup>3</sup>	DE TRGS 900
		Peak-limit: excursion factor (category): 2;(I)		
		Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		
Barium sulfate	7727-43-7	AGW (Inhalable fraction)	10 mg/m <sup>3</sup>	DE TRGS 900
		Peak-limit: excursion factor (category): 2;(II)		
		AGW (Alveolate fraction)	1,25 mg/m <sup>3</sup>	DE TRGS 900
		Peak-limit: excursion factor (category): 2;(II)		
		TWA	0,5 mg/m <sup>3</sup> (Barium)	2006/15/EC
		Further information: Indicative		

### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
2-Butoxyethanol	111-76-2	butoxy acetic acid: 150 mg/g Creatinine (Urine)	In case of long-term exposure: after more than one shift, Immediately after exposure or after working hours	TRGS 903

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

Substance name	End Use	Exposure routes	Potential health effects	Value
2-Butoxyethanol	Workers	Inhalation	Long-term systemic effects	600 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	405 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	213 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	203 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	15 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	98 mg/m <sup>3</sup>



# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version  
9.0

Revision Date:  
06.06.2023

SDS Number:  
10593794-00009

Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

			effects	
	Workers	Inhalation	Acute systemic effects	1091 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	246 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	125 mg/kg bw/day
	Workers	Skin contact	Acute systemic effects	89 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	59 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	426 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	147 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	75 mg/kg bw/day
	Consumers	Skin contact	Acute systemic effects	89 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	6,3 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	26,7 mg/kg bw/day
Barium sulfate	Workers	Inhalation	Long-term local effects	10 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	10 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	10 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	13000 mg/kg bw/day
Zinc oxide	Workers	Inhalation	Long-term systemic effects	5 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	0,5 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	83 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2,5 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	83 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,83 mg/kg bw/day
Molybdenum trioxide	Workers	Inhalation	Long-term systemic effects	16,76 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	3,33 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	5 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	2 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	5,15 mg/kg bw/day
Trizinc	Workers	Inhalation	Long-term systemic	5 mg/m <sup>3</sup>

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version 9.0      Revision Date: 06.06.2023      SDS Number: 10593794-00009      Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

bis(orthophosphate)			effects	
	Workers	Skin contact	Long-term systemic effects	83 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2,5 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	83 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,83 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Butan-2-ol	Fresh water	47,1 mg/l
	Marine water	47,1 mg/l
	Intermittent use/release	47,1 mg/l
	Sewage treatment plant	761 mg/l
	Fresh water sediment	196,19 mg/kg dry weight (d.w.)
	Marine sediment	196,19 mg/kg dry weight (d.w.)
2-Butoxyethanol	Soil	11,58 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	1000 mg/kg food
	Fresh water	8,8 mg/l
	Marine water	0,88 mg/l
	Freshwater - intermittent	26,4 mg/l
	Sewage treatment plant	463 mg/l
Barium sulfate	Fresh water sediment	34,6 mg/kg dry weight (d.w.)
	Marine sediment	3,46 mg/kg dry weight (d.w.)
	Soil	2,33 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	20 mg/kg food
	Fresh water	0,115 mg/l
	Sewage treatment plant	62,2 mg/l
Zinc oxide	Fresh water sediment	600,4 mg/kg dry weight (d.w.)
	Soil	207,7 mg/kg dry weight (d.w.)
	Fresh water	20,6 µg/l
	Marine water	6,1 µg/l
	Sewage treatment plant	100 µg/l
	Fresh water sediment	117,8 mg/kg dry weight (d.w.)
Molybdenum trioxide	Marine sediment	56,5 mg/kg dry weight (d.w.)
	Soil	35,6 mg/kg dry weight (d.w.)
	Fresh water	19,05 mg/l
	Marine water	2,85 mg/l
	Sewage treatment plant	32,55 mg/l

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version 9.0      Revision Date: 06.06.2023      SDS Number: 10593794-00009      Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

	Fresh water sediment	33900 mg/kg
	Marine sediment	2970 mg/kg
	Soil	14,25 mg/kg
Trizinc bis(orthophosphate)	Fresh water	20,6 µg/l
	Marine water	6,1 µg/l
	Sewage treatment plant	100 µg/l
	Fresh water sediment	117,8 mg/kg
	Marine sediment	56,5 mg/kg
	Soil	35,6 mg/kg

### 8.2 Exposure controls

#### Engineering measures

Ensure adequate ventilation, especially in confined areas.  
Minimize workplace exposure concentrations.

#### Personal protective equipment

Eye/face protection : Wear the following personal protective equipment:  
Safety glasses  
Equipment should conform to DIN EN 166

#### Hand protection

Material : Nitrile rubber  
Break through time :  $\geq 480$  min  
Glove thickness :  $\geq 0,4$  mm  
Directive : Equipment should conform to DIN EN 374  
Protective index : Class 6

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.  
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.  
Equipment should conform to DIN EN 14387

Filter type : Combined particulates and organic vapour type (A-P)

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version 9.0      Revision Date: 06.06.2023      SDS Number: 10593794-00009      Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

---

Physical state : liquid

Colour : coloured

Odour : characteristic

Odour Threshold : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : 100 °C

Flammability (solid, gas) : Not applicable

Flammability (liquids) : Will not burn

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Flash point : Not applicable

Auto-ignition temperature : 240 °C  
Method: DIN 51794

Decomposition temperature : No data available

pH : 8,4  
Concentration: 100 %

Viscosity  
Viscosity, dynamic : 1.100 mPa.s (20 °C)

Viscosity, kinematic : No data available

Solubility(ies)  
Water solubility : completely miscible

Partition coefficient: n-octanol/water : Not applicable

Vapour pressure : 23 hPa (20 °C)

Density : 1,17 g/cm<sup>3</sup> (20 °C)  
Method: DIN 53217

Relative vapour density : No data available

Particle characteristics

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
9.0	06.06.2023	10593794-00009	Date of first issue: 11.06.2010

---

Particle size : Not applicable

### 9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Evaporation rate : No data available

---

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : None known.

### 10.4 Conditions to avoid

Conditions to avoid : None known.

### 10.5 Incompatible materials

Materials to avoid : None.

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

---

## SECTION 11: Toxicological information

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

Information on likely routes of exposure : Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version 9.0      Revision Date: 06.06.2023      SDS Number: 10593794-00009      Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

---

Method: Calculation method

### Components:

#### **Barium sulfate:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

#### **2-Butoxyethanol:**

Acute oral toxicity : LD50 (Guinea pig): 1.200 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 3 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Expert judgement

Acute dermal toxicity : LD50 (Guinea pig): > 2.000 mg/kg

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

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

Acute inhalation toxicity : LC50 (Rat): > 5,4 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Remarks: Based on data from similar materials

#### **Butan-2-ol:**

Acute oral toxicity : LD50 (Rat): 2.054 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

#### **Zinc oxide:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5,7 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

#### **Ammonium hydroxide:**

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version 9.0      Revision Date: 06.06.2023      SDS Number: 10593794-00009      Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

---

Acute oral toxicity : LD50 (Rat): 350 mg/kg  
Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

### **Molybdenum trioxide:**

Acute oral toxicity : LD50 (Rat, male): 2.689 mg/kg  
Method: OECD Test Guideline 401  
Acute inhalation toxicity : LC50 (Rat): > 5,05 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  
Assessment: The substance or mixture has no acute dermal toxicity

Reaction mass 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): 64 mg/kg  
Acute inhalation toxicity : LC50 (Rat): 0,171 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: Corrosive to the respiratory tract.  
Acute dermal toxicity : LD50 (Rabbit): 87,12 mg/kg

### **Skin corrosion/irritation**

Not classified based on available information.

### **Components:**

#### **Barium sulfate:**

Species : reconstructed human epidermis (RhE)  
Method : OECD Test Guideline 439  
Remarks : Based on data from similar materials  
Result : No skin irritation

#### **2-Butoxyethanol:**

Species : Rabbit  
Method : Directive 67/548/EEC, Annex V, B.4.  
Result : Skin irritation

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

Species : Rabbit

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version 9.0      Revision Date: 06.06.2023      SDS Number: 10593794-00009      Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

---

Result : No skin irritation  
Remarks : Based on data from similar materials

### **Butan-2-ol:**

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

### **Zinc oxide:**

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

### **Ammonium hydroxide:**

Species : Rabbit  
Result : Corrosive after 3 minutes to 1 hour of exposure  
Remarks : Based on national or regional regulation.

### **Molybdenum trioxide:**

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

Reaction mass 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  
Method : OECD Test Guideline 404  
Result : Corrosive after 1 to 4 hours of exposure

### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Components:**

#### **Barium sulfate:**

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

#### **2-Butoxyethanol:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irritation to eyes, reversing within 21 days

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

Species : Rabbit  
Method : OECD Test Guideline 405



# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version 9.0      Revision Date: 06.06.2023      SDS Number: 10593794-00009      Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

---

Result : No eye irritation

### Butan-2-ol:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irritation to eyes, reversing within 21 days

### Zinc oxide:

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

### Ammonium hydroxide:

Result : Irreversible effects on the eye  
Remarks : Based on skin corrosivity.

### Molybdenum trioxide:

Result : Irritation to eyes, reversing within 21 days  
Remarks : Based on national or regional regulation.

Reaction mass 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 : Irreversible effects on the eye  
Remarks : Based on skin corrosivity.

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

### Components:

#### Barium sulfate:

Test Type : Local lymph node assay (LLNA)  
Exposure routes : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : negative  
Remarks : Based on data from similar materials

#### 2-Butoxyethanol:

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : negative

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version 9.0      Revision Date: 06.06.2023      SDS Number: 10593794-00009      Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

---

### Trizinc bis(orthophosphate):

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : negative  
Remarks : Based on data from similar materials  
  
Assessment : Does not cause skin sensitisation.

### Butan-2-ol:

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : negative

### Zinc oxide:

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : negative

### Molybdenum trioxide:

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : negative

Reaction mass 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):

Test Type : Buehler Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Result : positive

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

### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### Barium sulfate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
9.0	06.06.2023	10593794-00009	Date of first issue: 11.06.2010

---

Result: negative  
Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro  
Result: negative  
Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
Remarks: Based on data from similar materials

### 2-Butoxyethanol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: Chromosome aberration test in vitro  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Result: negative

Test Type: In vitro sister chromatid exchange assay in mam-  
malian cells  
Result: equivocal

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo  
cytogenetic assay)  
Species: Rat  
Application Route: Intraperitoneal injection  
Result: negative

Test Type: Mammalian erythrocyte micronucleus test (in vivo  
cytogenetic assay)  
Species: Mouse  
Application Route: Intraperitoneal injection  
Result: negative

### Trizinc bis(orthophosphate):

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative  
Remarks: Based on data from similar materials

### Butan-2-ol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Chromosomal aberration  
Result: negative

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version 9.0      Revision Date: 06.06.2023      SDS Number: 10593794-00009      Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

---

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Intraperitoneal injection  
Result: negative  
Remarks: Based on data from similar materials

### Zinc oxide:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: equivocal

Test Type: Chromosome aberration test in vitro  
Result: equivocal

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Rat  
Application Route: inhalation (dust/mist/fume)  
Method: OECD Test Guideline 474  
Result: negative

Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)  
Species: Rat  
Application Route: inhalation (dust/mist/fume)  
Result: positive

Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### Ammonium hydroxide:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

### Molybdenum trioxide:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version 9.0      Revision Date: 06.06.2023      SDS Number: 10593794-00009      Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

---

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **Barium sulfate:**

Species : Rat  
Application Route : Ingestion  
Exposure time : 2 Years  
Result : negative  
Remarks : Based on data from similar materials

#### **2-Butoxyethanol:**

Species : Rat  
Application Route : inhalation (vapour)  
Exposure time : 2 Years  
Result : negative

#### **Zinc oxide:**

Species : Mouse  
Application Route : Ingestion  
Exposure time : 1 Years  
Result : negative  
Remarks : Based on data from similar materials

#### **Molybdenum trioxide:**

Species : Mouse  
Application Route : inhalation (dust/mist/fume)  
Exposure time : 105 weeks  
Result : positive

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in inhalation studies with animals.

### **Reproductive toxicity**

Not classified based on available information.

### **Components:**

#### **Barium sulfate:**

Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
9.0	06.06.2023	10593794-00009	Date of first issue: 11.06.2010

---

Remarks: Based on data from similar materials

### 2-Butoxyethanol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Mouse  
Application Route: Ingestion  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Result: negative

Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative

### Trizinc bis(orthophosphate):

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials

### Butan-2-ol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Result: negative

### Zinc oxide:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (dust/mist/fume)  
Method: OECD Test Guideline 414  
Result: negative  
Remarks: Based on data from similar materials

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version 9.0      Revision Date: 06.06.2023      SDS Number: 10593794-00009      Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

---

### STOT - single exposure

Not classified based on available information.

#### Components:

##### **Butan-2-ol:**

Assessment : May cause respiratory irritation., May cause drowsiness or dizziness.

##### **Molybdenum trioxide:**

Assessment : May cause respiratory irritation.

### STOT - repeated exposure

Not classified based on available information.

#### Components:

##### **Barium sulfate:**

Assessment : No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

##### **Zinc oxide:**

Assessment : No significant health effects observed in animals at concentrations of 0.2 mg/l/6h/d or less.

### Repeated dose toxicity

#### Components:

##### **Barium sulfate:**

Species : Rat  
NOAEL : 61,1 mg/kg  
Application Route : Ingestion  
Exposure time : 90 Days  
Remarks : Based on data from similar materials

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

Species : Rat  
NOAEL : 31,52 mg/kg  
Application Route : Ingestion  
Exposure time : 13 Weeks  
Method : OECD Test Guideline 408  
Remarks : Based on data from similar materials

##### **Butan-2-ol:**

Species : Rat  
NOAEL : >= 15,11 mg/l  
Application Route : inhalation (vapour)  
Exposure time : 80 - 90 Days  
Remarks : Based on data from similar materials

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
9.0	06.06.2023	10593794-00009	Date of first issue: 11.06.2010

---

### Zinc oxide:

Species	: Rat, male
NOAEL	: 0,0015 mg/l
Application Route	: inhalation (dust/mist/fume)
Exposure time	: 3 Months
Method	: OECD Test Guideline 413

### Molybdenum trioxide:

Species	: Mouse
NOAEL	: > 0,1 mg/kg
Application Route	: inhalation (dust/mist/fume)
Exposure time	: 13 Weeks

### 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.
------------	---

---

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### Barium sulfate:

Toxicity to fish	: LC50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	: NOEC (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials



# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version 9.0      Revision Date: 06.06.2023      SDS Number: 10593794-00009      Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

---

ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 : > 600 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
Remarks: Based on data from similar materials

NOEC : > 600 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 1 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Remarks: Based on data from similar materials

### 2-Butoxyethanol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.464 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.800 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 1.840 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EC10 (Pseudokirchneriella subcapitata (green algae)): 679 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: > 100 mg/l  
Exposure time: 21 d  
Species: Danio rerio (zebra fish)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 134 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### Trizinc bis(orthophosphate):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 169 µg/l  
Exposure time: 96 h

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version 9.0      Revision Date: 06.06.2023      SDS Number: 10593794-00009      Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

---

Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia (water flea)): 155 µg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 24 µg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC: 39 µg/l  
Exposure time: 30 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 95 µg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials

M-Factor (Chronic aquatic toxicity) : 1

### **Butan-2-ol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

EC10 (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

### **Zinc oxide:**

Toxicity to fish : LC50 : > 0,1 - 1 mg/l

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version 9.0      Revision Date: 06.06.2023      SDS Number: 10593794-00009      Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

---

Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,136 mg/l  
Exposure time: 72 h

NOEC (Pseudokirchneriella subcapitata (green algae)): > 0,01 - 0,1 mg/l  
Exposure time: 72 h  
Remarks: Based on data from similar materials

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC: > 0,01 - 0,1 mg/l  
Exposure time: 14 Weeks  
Species: Jordanella floridae (flagfish)  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0,01 - 0,1 mg/l  
Exposure time: 7 d  
Species: Ceriodaphnia dubia (water flea)  
Remarks: Based on data from similar materials

M-Factor (Chronic aquatic toxicity) : 1

### Ammonium hydroxide:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 8,2 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,66 mg/l  
Exposure time: 48 h

M-Factor (Acute aquatic toxicity) : 1

### Ecotoxicology Assessment

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

### Molybdenum trioxide:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 577 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 206,8 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC10 (Pseudokirchneriella subcapitata (green algae)): > 93,8 mg/l  
Exposure time: 72 h

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version 9.0      Revision Date: 06.06.2023      SDS Number: 10593794-00009      Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

---

- EC50 (Pseudokirchneriella subcapitata (green algae)): 433,9 mg/l  
Exposure time: 72 h
- Toxicity to microorganisms : EC50 : 820 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209
- Toxicity to fish (Chronic toxicity) : NOEC: 300,1 mg/l  
Exposure time: 32 d  
Species: Oncorhynchus mykiss (rainbow trout)
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 282 mg/l  
Exposure time: 7 d  
Species: Ceriodaphnia dubia (water flea)
- Reaction mass 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
- 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 (Skeletonema costatum (marine diatom)): 0,0052 mg/l  
Exposure time: 48 h
- NOEC (Skeletonema costatum (marine diatom)): 0,00049 mg/l  
Exposure time: 48 h
- M-Factor (Acute aquatic toxicity) : 100
- Toxicity to fish (Chronic toxicity) : NOEC: 0,02 mg/l  
Exposure time: 36 d  
Species: Pimephales promelas (fathead minnow)
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,10 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)
- M-Factor (Chronic aquatic toxicity) : 100

### 12.2 Persistence and degradability

#### Components:

##### **2-Butoxyethanol:**

- Biodegradability : Result: Readily biodegradable.  
Biodegradation: 90,4 %

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version 9.0      Revision Date: 06.06.2023      SDS Number: 10593794-00009      Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

---

Exposure time: 28 d  
Method: OECD Test Guideline 301B

### **Butan-2-ol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 86 %  
Exposure time: 5 d

Reaction mass 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 : Result: Not readily biodegradable.  
Biodegradation: 62 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### 12.3 Bioaccumulative potential

#### Components:

#### **Barium sulfate:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): < 500

Partition coefficient: n-octanol/water : log Pow: -1,03  
Remarks: Calculation

#### **2-Butoxyethanol:**

Partition coefficient: n-octanol/water : log Pow: 0,81

#### **Butan-2-ol:**

Partition coefficient: n-octanol/water : log Pow: 0,65

#### **Zinc oxide:**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 78 - 2.060

Reaction mass 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: < 1

### 12.4 Mobility in soil

No data available

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
9.0	06.06.2023	10593794-00009	Date of first issue: 11.06.2010

---

### 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

No data available

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- |                        |  |
|------------------------|--|
| Product                | : Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.  |
| Contaminated packaging | : Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.   |
| Waste Code             | : The following Waste Codes are only suggestions:<br><br>used product<br>08 01 11, waste paint and varnish containing organic solvents or other hazardous substances<br><br>unused product<br>08 01 11, waste paint and varnish containing organic solvents or other hazardous substances<br><br>uncleaned packagings<br>15 01 10, packaging containing residues of or contaminated by hazardous substances<br><br>Acc. Packaging Act properly emptied packaging:<br>Properly emptied, non-contaminated packaging of non-hazardous products can be supplied to a system for the col- |

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version 9.0      Revision Date: 06.06.2023      SDS Number: 10593794-00009      Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

---

lection of sales packaging.

---

### SECTION 14: Transport information

#### 14.1 UN number or ID number

**ADN** : UN 3082  
**ADR** : UN 3082  
**RID** : UN 3082  
**IMDG** : UN 3082  
**IATA** : UN 3082

#### 14.2 UN proper shipping name

**ADN** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Trizinc bis(orthophosphate), Zinc oxide)  
**ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Trizinc bis(orthophosphate), Zinc oxide)  
**RID** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Trizinc bis(orthophosphate), Zinc oxide)  
**IMDG** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Trizinc bis(orthophosphate), Zinc oxide)  
**IATA** : Environmentally hazardous substance, liquid, n.o.s.  
(Trizinc bis(orthophosphate), Zinc oxide)

#### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
<b>ADN</b>	: 9	
<b>ADR</b>	: 9	
<b>RID</b>	: 9	
<b>IMDG</b>	: 9	
<b>IATA</b>	: 9	

#### 14.4 Packing group

**ADN**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
**ADR**  
Packing group : III

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
9.0	06.06.2023	10593794-00009	Date of first issue: 11.06.2010

---

Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

### RID

Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

### IMDG

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

### IATA (Cargo)

Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

### IATA (Passenger)

Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
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

## 14.6 Special precautions for user

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

## 14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.



# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version 9.0      Revision Date: 06.06.2023      SDS Number: 10593794-00009      Date of last issue: 10.11.2022  
Date of first issue: 11.06.2010

### SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 75, 3

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : If you intend to use this product as tattoo ink, please contact your vendor.

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

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

The treated article incorporates biocidal products

Active substance : %  
Reaction mass 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)

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

E2	ENVIRONMENTAL HAZARDS	Quantity 1	Quantity 2
		200 t	500 t

Water hazard class (Germany) : WGK 1 slightly hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

Volatile organic compounds : Directive 2004/42/EC  
VOC content in g/l: < 119 g/l  
Product sub-category: One-pack performance coating  
Product Type: Water-borne  
VOC limit level 2 (2010): 140 g/l

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
9.0	06.06.2023	10593794-00009	Date of first issue: 11.06.2010

---

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 9,05 %

### Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

---

## SECTION 16: Other information

Other information : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

### Full text of H-Statements

H226 : Flammable liquid and vapour.  
H301 : Toxic if swallowed.  
H302 : Harmful if swallowed.  
H310 : Fatal in contact with skin.  
H314 : Causes severe skin burns and eye damage.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H330 : Fatal if inhaled.  
H331 : Toxic if inhaled.  
H335 : May cause respiratory irritation.  
H336 : May cause drowsiness or dizziness.  
H351 : Suspected of causing cancer if inhaled.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.  
EUH071 : Corrosive to the respiratory tract.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Carc. : Carcinogenicity  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Flam. Liq. : Flammable liquids  
Skin Corr. : Skin corrosion  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitisation  
STOT SE : Specific target organ toxicity - single exposure  
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
9.0	06.06.2023	10593794-00009	Date of first issue: 11.06.2010

2006/15/EC	:	Europe. Indicative occupational exposure limit values
DE TRGS 900	:	Germany. TRGS 900 - Occupational exposure limit values.
TRGS 903	:	TRGS 903 - Biological limit values
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
2006/15/EC / TWA	:	Limit Value - eight hours
DE TRGS 900 / AGW	:	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

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

### Classification of the mixture:

Aquatic Chronic 2 H411

### Classification procedure:

Calculation method

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

# SAFETY DATA SHEET

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



## 1C AQUA PRIMER - 3 KG

Version	Revision Date:	SDS Number:	Date of last issue: 10.11.2022
9.0	06.06.2023	10593794-00009	Date of first issue: 11.06.2010

---

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

DE / EN