

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.02.2024

Version number 3.0

Revision: 12.01.2023

1 Identification of the substance/mixture and of the company/undertaking

Product identifier**Trade name:** ProCare Med 10 A**Relevant identified uses of the substance or mixture and uses advised against**

For industrial and commercial use only.

Application of the substance / the mixture Cleaning material/ Detergent**Details of the supplier of the safety data sheet****Manufacturer:**

Borer Chemie AG

Gewerbestr. 13

CH-4528 Zuchwil

Schweiz

office@borer.ch

Telefon: +41 32 686 56 00

Telefax: +41 32 686 56 90

Supplier:

Steelco S.p.A.

Via Balegante 27,

31039 Riese Pio X (TV)

Italy

Tel: +39 0423 7561

pc-chemicals-hg-@steelcogroup.com

Further information obtainable from: product.safety@borer.ch**Emergency telephone number:**

Health Poison and Drug Information Center 24 hour emergency contact: 800 424

2 Hazards identification

Classification of the substance or mixture

corrosion

Eye Dam. 1 H318 Causes serious eye damage.



Skin Irrit. 2 H315 Causes skin irritation.

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Label elements**GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms

GHS05

Signal word Danger**Hazard-determining components of labelling:**

tripotassium phosphate

dipotassium trioxosilicate

Hazard statements

Causes skin irritation.

Causes serious eye damage.

Precautionary statements

Wear eye protection / face protection.

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.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

Other hazards

The substances in the mixture do not meet PBT/vPvB criteria according to REACH Annex XIII.

Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.

3 Composition/information on ingredients

Chemical characterisation: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 7320-34-5	Tetrapotassiumdiphosphate	≥15–<30%
	⚠ Serious eye damage/irritation – Category 2A, H319	
CAS: 7778-53-2	tripotassium phosphate	≥5–<15%
	⚠ Eye Dam. 1, H318; ⚠ STOT SE 3, H335	
CAS: 1312-76-1	dipotassium trioxosilicate	≥5–<15%
	⚠ Met. Corr. 1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318	

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Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

Description of first aid measures**General information:** Immediately remove any clothing soiled by the product.**After inhalation:**

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air.

After skin contact: Immediately wash with water and soap and rinse thoroughly.**After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: If symptoms persist consult doctor.**Information for doctor:****Most important symptoms and effects, both acute and delayed**

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

Extinguishing media The product does not burn**Suitable extinguishing agents:**

Use fire extinguishing methods suitable to surrounding conditions.

Water spray

Foam

Fire-extinguishing powder

For safety reasons unsuitable extinguishing agents: Full water jet**Special hazards arising from the substance or mixture** No further relevant information available.**Advice for firefighters****Protective equipment:** No special measures required.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to section 13.

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Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage**Handling:****Precautions for safe handling** No special precautions are necessary if used correctly.**Information about fire - and explosion protection:** No special measures required.**Conditions for safe storage, including any incompatibilities****Requirements to be met by storerooms and receptacles:** No special requirements.**Information about storage in one common storage facility:** Do not store together with acids.**Further information about storage conditions:**

Optimum storage temperature 20°C. For details, see the product label.

Storage class (TRGS 510): 12**Specific end use(s)** No further relevant information available.**8 Exposure controls/personal protection****Additional information about design of technical facilities:** No further data; see section 7.**Control parameters****Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs**CAS: 7320-34-5 Tetrapotassiumdiphosphate**DNEL (Inhalation) 2.79 mg/m³ (Employee)**PNECs****CAS: 7320-34-5 Tetrapotassiumdiphosphate**

PNEC 0.05 mg/l (Freshwater)

50 mg/l (Wastewater treatment plant)

0.005 mg/l (Sea water)

Additional information: The lists valid during the making were used as basis.**Exposure controls**

Control potential exposure through measures such as encapsulated or self-contained systems, properly designed and maintained installations and sufficient ventilation standards. Shut down systems and empty pipelines before opening the plant. Wherever possible, shut down and flush the plant before maintenance work. If there is potential for exposure: Ensure that key personnel have been informed regarding the nature of the exposure and basic methods for minimising exposure. Ensure that suitable personal protective equipment is available. In agreement with legal

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requirements, absorb any spills and dispose of waste. Monitor the effectiveness of control measures; consider the need for health monitoring; identify and implement corrective measures.

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

Respiratory protection: Not required.

Protection of hands:

The protective gloves to be used must satisfy the specification of EC Directive 89/686/EEC and the resulting EN374 standard.



Protective gloves

Material of gloves

Recommended thickness of the material: ≥ 0.7 mm

Nitrile rubber, NBR

Penetration time of glove material Penetration time: > 480 min.

Eye protection:

Tightly sealed goggles (EN 166)

9 Physical and chemical properties

Information on basic physical and chemical properties**General Information****Appearance:**

Form:	Fluid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value at 20 °C:	12.6
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Change in condition

Melting point/freezing point:	Not relevant
Initial boiling point and boiling range:	100 °C

Flash point:	Not relevant
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Flammability (solid, gas):	Not applicable.
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Decomposition temperature:	>230 °C
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not applicable.
Upper:	Not applicable.
Oxidising properties	Not relevant
Vapour pressure at 20 °C:	23 hPa
Density at 20 °C:	1.4 g/cm ³
Vapour density	Not relevant
Evaporation rate	Not relevant
Solubility in / Miscibility with water:	Fully miscible.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Other information	No further relevant information available.

10 Stability and reactivity

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided: Thermal decomposition above 230 °C.

Possibility of hazardous reactions Exothermic reaction with: Acids

Conditions to avoid No further relevant information available.

Incompatible materials: Do not store together with acids.

Hazardous decomposition products:

Thermal decomposition can cause the release of irritant gases and vapours.

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11 Toxicological information

Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification:

CAS: 7320-34-5 Tetrapotassiumdiphosphate

Dermal	LD50	7940 mg/kg (Rabbit)
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CAS: 7778-53-2 tripotassium phosphate

Dermal	LD50	7340 mg/kg (Rabbit)
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Primary irritant effect:

Skin corrosion/irritation Irritant to skin and mucous membranes.

Serious eye damage/irritation Strong irritant with the danger of severe eye injury.

Respiratory or skin sensitisation No sensitising effects known.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

12 Ecological information

Toxicity

Aquatic toxicity:

CAS: 7320-34-5 Tetrapotassiumdiphosphate

LC50/48h	>100 mg/l (Daphnia)
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LC50/96h	>100 mg/l (Fish)
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CAS: 7778-53-2 tripotassium phosphate

LC50/96h	>100 mg/l (Fish)
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EC50/48h	>100 mg/l (Daphnia)
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EC50/72h	>100 mg/l (Algae)
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CAS: 1312-76-1 dipotassium trioxosilicate

LC50/96h	>146 mg/l (Fish)
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EC50/48h	>146 mg/l (Daphnia)
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Persistence and degradability

Biodegradability according to OECD >90 %

Behaviour in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

COD-value: 9.00 g/kg

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General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Results of PBT and vPvB assessment No further relevant information available.

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods**Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

UN-Number

ADR, IMDG, IATA

not regulated

UN proper shipping name

ADR, IMDG, IATA

not regulated

Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class

not regulated

Packing group

ADR, IMDG, IATA

not regulated

Environmental hazards:

Not applicable.

Special precautions for user

Not applicable.

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

Not applicable.

UN "Model Regulation":

not regulated

15 Regulatory information

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

GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms



GHS05

Signal word Danger

Hazard-determining components of labelling:

tripotassium phosphate

dipotassium trioxosilicate

Hazard statements

Causes skin irritation.

Causes serious eye damage.

Precautionary statements

Wear eye protection / face protection.

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.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information in this safety data sheet is correct to the best of our knowledge at the time of printing. The information is intended to provide you with reference points for the safe handling of the product specified in this safety data sheet when storing, processing, transporting and disposing of it. The information is not transferable to other products. Insofar as the product is mixed or processed with other materials, or is subject to processing, the information in this safety data sheet, unless

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expressly indicated otherwise, cannot be transferred to the resulting new material.

Relevant phrases

H290 May be corrosive to metals.
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.

Department issuing SDS: product.safety@borer.ch

Contact: product.safety@borer.ch

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Met. Corr. 1: Corrosive to metals – Category 1
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

*** Data compared to the previous version altered.**

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