

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.02.2024

Version number 5.0

Revision: 20.01.2024

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

Product identifier**Trade name:** ProCare Med 30 C**Relevant identified uses of the substance or mixture and uses advised against**

For industrial and commercial use only.

Application of the substance / the mixture Neutraliser**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

Serious eye damage/irritation – Category 2A H319 Causes serious eye irritation.

STOT SE 3

H335 May cause respiratory irritation.

Label elements**GHS label elements**

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

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Hazard pictograms

GHS07

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

citric acid

Hazard statements

Causes serious eye irritation.

May cause respiratory irritation.

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear eye protection / face protection.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.


Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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: 77-92-9 | citric acid |  | Acute Tox. 4, H312; Eye Irrit. 2, H319; STOT SE 3, H335 | ≥30% |
|--------------|-------------|---|---|------|

Additional information: For the wording of the listed hazard phrases refer to section 16.**4 First aid measures****Description of first aid measures****After inhalation:** Supply fresh air.**After skin contact:** Generally the product does not irritate the skin.**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor.

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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** Not required.**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).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

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**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire - and explosion protection: No special measures required.

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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:** Not required.**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.

PNECs**CAS: 77-92-9 citric acid**

| | |
|------|---------------------------------|
| PNEC | 0.44 mg/l (Freshwater) |
| | 0.044 mg/l (Sea water) |
| | 0.752 mg/l (Sea water sediment) |
| | 7.52 mg/l (Freshwater sediment) |

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 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 eyes.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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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: 2.7

Change in condition

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

Flash point: Not relevant

Flammability (solid, gas): Not applicable.

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

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| | |
|--|--|
| Vapour pressure at 20 °C: | 23 hPa |
| Density at 20 °C: | 1.2 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

Keep away from alkaline materials to prevent exothermic reactions.

Conditions to avoid No further relevant information available.

Incompatible materials: Alkalis (lyes), concentrated. Oxidising agents. Metal

Hazardous decomposition products:

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

11 Toxicological information

Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

| | | |
|--------|------|------------------|
| Dermal | LD50 | 5291 mg/kg (Rat) |
|--------|------|------------------|

CAS: 77-92-9 citric acid

| | | |
|------|------|--------------------|
| Oral | LD50 | 5040 mg/kg (Mouse) |
|------|------|--------------------|

| | | |
|--------|------|------------------|
| Dermal | LD50 | 2000 mg/kg (Rat) |
|--------|------|------------------|

Primary irritant effect:

Skin corrosion/irritation No irritant effect.

Serious eye damage/irritation Irritating effect.

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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:** No further relevant information available.**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:** 280.00 g/kg**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.

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

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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.

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

GHS07

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

citric acid

Hazard statements

Causes serious eye irritation.

May cause respiratory irritation.

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear eye protection / face protection.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store locked up.

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Dispose of contents/container in accordance with local/regional/national/international regulations.

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

Relevant phrases

H312 Harmful in contact with skin.

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)

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

Acute Tox. 4: Acute toxicity – Category 4

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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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