

Material Safety Data Sheet

according to 91/155/EEC

ProMinent®

BelloZon-Chlorite-06-AUS

Revision: 01-09-2005

1/3

1. Product and Company Identification

Product Identification: BellZon-Chlorite Part No.: 950135,
950136,
950137

Company Identification: ProMinent Dosiertechnik GmbH
69123 Heidelberg, Im Schuhmachergewann 5-11
REG- No.: HRB 1350 / Heidelberg -Germany-
Tel: +49 (0)6221 842-0

Local Supplier: ProMinent Fluid Controls Pty Ltd
4/4 Narabang Way, Belrose NSW 2085
Tel: +61 (0) 2 9450 0995

2. Composition / information on ingredients

Aqueous solution of Sodium Chlorite (NaClO₂) 7.5 % (approx. 80 g/L)
CAS number : 7758-19-2
EC number : 231-836-6
UN number : 1908

3. Hazards identification of the product

R 32 : contact with acids liberates very toxic gas
R 36/38 : irritant to eyes and skin

4. First aid measures

Poisons Information Centre :

Australia 131 126; New Zealand 0800 764 766 or a doctor.

- after skin contact: rinse with plenty of water. Immediately remove contaminated clothes and rinse thoroughly.
- after eye contact: rinse immediately with plenty of water (at least 10 minutes). See an oculist.
- After ingestion: drink plenty of water. Avoid vomiting. See a physician.

5. Fire-fighting measures

Suitable extinguishing media: water, extinguishing foam

Unsuitable extinguishing media for safety reasons: Halone, CCl₄, carbon dioxide

Special risks caused by the product itself, its combustible products or gases:
dried solution increase the flammability of combustibles, in event of fire risk of
formation of toxic gases: chlorine dioxide

Special exposure hazards: breathe protection at formation of chlorine dioxide

Material Safety Data Sheet

according to 91/155/EEC

ProMinent®

BelloZon-Chlorite-06-AUS

Revision: 01-09-2005

2/3

6. Accidental release measures

Personal Precautions: avoid substance contact with skin and eyes.

Environmental precautions: do not allow to enter sewerage system.

Methods of cleaning up / of removing: dilute with plenty of water and wash away, do not allow drying in of solution

7. Handling and storage

Handling: keep away from acids and reducing chemicals.

Storage: keep original tank tightly closed until use of chemical. Avoid sun, heat and frost as well as contamination of the product.

8. Exposure controls and personal protection

Additional information on the system design: ensure supply of fresh air in enclosed rooms.

Components with specific control parameters: at formation of ClO₂ : maximum admissible concentration: 0.1 ppm (0.3 mg/m³)

Personal protection:

- Eye protection: protective eyeglasses
- Hand protection: protective gloves (PVC, PE, no rubber)
- Respiratory protection: protection mask , when ClO₂ is liberated

9. Physical and chemical properties:

physical state: liquid

colour: colourless

pH-value: approx. 12 (undiluted at 20 °C)

freezing point: below -5 °C

flash point: not applicable

ignition temperature: not applicable

vapour pressure: (aqueous solution)

explosion limits: not applicable

relative density: approx. 1.06 kg/L (20 °C)

solubility: miscible in water

10. Stability and reactivity

Conditions to avoid: drying of solution (can ignite upon contact with combustibles)

Materials to avoid:

- reaction with acid: formation of chlorine dioxide (ClO₂)
- reaction with reducing agents and sulfur containing substances: vigorous reaction

Hazardous decomposition products: stable in original solution, with acids formation of Chlorine Dioxide

Material Safety Data Sheet

according to 91/155/EEC

BelloZon-Chlorite-06-AUS

Revision: 01-09-2005

3/3

11. Toxicological Information

No data available for the 7.5% solution.

Ingestion : LD 50 :1019 mg/kg (rat, pure substance), formation of methemoglobinemia

Skin contact: not irritating (rabbit, OECD)

Eye contact: strongly irritating (rabbit, OECD).

12. Ecological information

Data regarding persistence and degradability:

- Degradability: not pertinent, inorganic product
- aquatic toxicity: acute fish toxicity: LC50 > 500 mg/L (Brachydanio rerio, 96 h, OECD). Spill residues can be neutralized by mixing with reducing waste water or by addition of reducing chemicals (e.g. Sodium disulfite Na₂S₂O₅)

13. Disposal considerations

If recycling is not possible, disposal to be done according to local waste disposal regulations. Classification (EAK): 06 07 04 – solutions and acids

14. Transport information

- Proper Shipping Name : CHLORITE SOLUTION
- GGVS/ADR/GGVE/RID : 8 II
- IMDG-Code : 8/ UN 1908 PG.II
- ICAO/IATA : 8 UN 1908 PG. II / Drill 8L
- EmS : 8-06; MFAG 741

15. Regulatory information

Self-classification and labelling according to 4th novel GefStoffVO/EC:

Hazard symbols: Xi irritant

R-phrases: R 32: contact with acid liberates very toxic gas

R 36/38: irritating to eyes and skin

S-phrases: S 14.5: keep away from acids

S 26: in case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39: wear suitable protective clothing, gloves and eye/face Protection

National Prescriptions: water pollution class (WGK): 1 (Germany)

Toxicity class: 3 (Switzerland)

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BelloZon-Chlorite-06-AUS

Revision: 01-09-2005

4/4

16. Other information

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties. Since ProMinent cannot anticipate or control the conditions under which this product may be used, each user must, before using this product, assess and control the risks arising from their use of this product. ProMinent Fluid Controls Pty Ltd's responsibility for the product as sold is subject to the terms and conditions of the standards conditions of sale, a copy of which is available upon request.