

1 Substance/ preparation and company designation

Trade name : **BRS-NaOCl-solution**
Address : ALPRO DENTAL-PRODUKTE GmbH
Mooswiesenstr. 9, D- 78112 St. Georgen/ Schwarzwald
Tel.: ++49 77 25/93 92 -0
Fax: ++49 77 25/93 92 91
Date of issue : September 27, 1999

2 Composition/ information to ingredients

Chemical characteristic: Sodium hypochlorite solution (1 – 2 % active chlorine)

CAS-no.: 7681-52-9
EG-no.: 017-011-00-1
EINECS-no.: 231-868-3

<u>Dangerous substances contained:</u>	<u>Weight %</u>	<u>Code letter</u>	<u>Warning</u>
ClONa	1 – 5 %	C	R 31-34

3 Possible dangers

If used as directed no particular dangers.

Particular warnings for people and environment: In case of contact with acid development of toxic gases.

4 First aid measures

Inhalation : Sufficient fresh air supply and consult a physician as a precaution.
Contact with skin : Wash off with water and soap immediately and rinse well.
Contact with eyes : Rinse eyes with running water with open palpebral fissure for some minutes and consult a physician.
Ingestion : Rinse mouth and drink plenty of water, do not induce vomiting, consult a physician.

5 Fire-fighting measures

Suitable extinguishing means : Adjust fire-fighting measures to the environment.
Dangers : In case of fire dangerous gases might develop (chlorine, hydrogen chloride, dichloroxide)
Further indications : Product itself does not burn.

6 Measures in case of accidental release

Precautions for persons : Care for sufficient ventilation, danger of sliding because of leaked/ spilled product, avoid contact with eyes and skin.
Precautions for environmental care : Do not let the product reach the canalization/waters, underground/ earth.
Methods for cleaning/ taking up : Take up with liquid binding materials (sand, silicious earth, acid binding agent, universal binding agent). Use neutralizing agent. Care for sufficient ventilation.

7 Storage and handling

Handling:	Store at a cool and dry place in firmly closed containers. Care for sufficient ventilation, open and handle containers carefully.
Storage:	Only store in original containers. Do not store together with acids or acid salts. Protect from light, heat and direct sunshine.

8 Exposure controls and personal protection

Further indications for the arrangement of technical equipment: If used as directed no further indications necessary. Components with limiting values to supervise at work:

Substance description:	Kind:	Value:	Unit:
Chlorine	MAK	1,5	mg/m ³
		0,5	ml/m ³

Personal protection equipment

Respiratory protection	: suitable respiratory protection
Eye protection	: tightly closing safety goggles
Hand protection	: rubber gloves
Body protection	: wear lye-resistant protection suit

9 Physical and chemical characteristics

Appearance	: liquid
Colour	: clear/ slightly yellowish
Smell	: slightly of chlorine
Boiling point/ range	: not applicable
Melting point/range	: -
Flash point (DIN, TRbF)	: not applicable
Density	: 1,015 - 1,025 g/cm ³ (20°C)
Solubility in water	: unlimited
pH-value	: 10 – 11 (20°C)
Viscosity, dynamic	: -
Refractive index nD	: 1,3374 – 1,3380 (20°C)

10 Stability and reactivity

Conditions to be avoided	: Thermically autokatalyzed shifting to NaClO ₃ and NaCl
Substances to be avoided	: Acids, reduction agents. Reacts with acids and acid salts under development of chlorine.
Dangerous decomposition products	: hydrogen chloride, chlorine

11 Toxicological information

Primary irritation	: Irritating effect on skin and on mucous membranes; danger of serious eye diseases.
Sensitizing	: No sensitizing effect known.
Additional indications	: In case of release of chlorine heavy inflammatory irritations or cauterizations of the higher and lower respiratory tracts might appear.

12 Ecological information

- General indications : Water endangering class 1 (self): lightly water endangering;
Do not let the product reach the ground water or the canalization. It must not reach the ground water, waters or the canalization.
It must not reach waste waters or the canalization undiluted or unneutralized.
- Other indications : Acute fish toxicity: LC50/96h, Pimephales promelas 5,9 mg/l;
Inhibition of the activity of waste water bacteria 40 – 100 mg Cl₂/l;
Harmful effect on fish, plankton and settled organisms by pH-shift.

13 Refuse disposal method

- Remaining quantities : Diluted to application concentration dump into a sewage plant for orderly treatment of waste waters.
- Packing : According to the official prescriptions of the country or of the region.

14 Information for transport

No dangerous product in the sense of the transport regulations.

15 Regulations

Label: BRS-NaOCl-solution
According to EC directives/GefStoffV the product is no dangerous product.

Water endangering classification: WGK 1 (self-classification)

16 Other data

The above information is given according to the best of our knowledge and belief.
The data is partially taken from the literature (different sources). For further information please contact:

ALPRO DENTAL-PRODUKTE GMBH
Mooswiesenstr. 9, D-78112 St.Georgen/Schwarzwald
Tel.: ++ 49 77 25/93 92-0
Fax: ++ 49 77 25/93 92 91
Email: alpro@alpro-dental.de
Internet: www.alpro-dental.de