

# Safety Data Sheet

according to regulation (EC) 1907/2006 (REACH)



Trade name: **BRS Remover**  
Revised at: 06.04.2010  
Print date: 12.09.2011

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## 1. Identification of the substance/preparation and of the company/undertaking

Trade name: **BRS Remover**  
Recommended use: Together with BRS Activator the BRS Remover causes the basic cleaning (removal of biofilm) of the process water lines in dental treatment units before the use of Alpron or Bilpron.  
Effect of the preparation: Cleansing agent  
Manufacturer: ALPRO MEDICAL GMBH  
Mooswiesenstr. 9  
D-78112 St. Georgen (Germany)  
Telephone: +49 7725 9392-0  
Telefax: +49 7725 9392-91  
Email: [alpro@alpro-medical.de](mailto:alpro@alpro-medical.de)  
Internet: [www.alpro-medical.com](http://www.alpro-medical.com)  
Technical contact point: +49 7725 9392-0  
Emergency phone: +49 7725 9392-0 (business hours)  
+49 761 19240 Poisoning-information-central, Freiburg (24h emergency call)

## 2. Hazards identification

R36 Irritating to eyes.

## 3. Composition/information on ingredients

Chemical characterization: Mixture of substances listed below with nonhazardous additions.

<i>Hazardous ingredients</i>	<i>CAS-No.</i>	<i>Weight-%</i>	<i>Code letter</i>	<i>R-phrases*</i>
Citric acid anhydrate	77-92-9	>50%	Xi	36

\*Full text of R-phrases: see under section 16

## 4. First aid measures

General information: Note precautions for self-protection.  
On inhalation: Move affected person into fresh air and keep still and warm. In case of irritation of the airways, seek medical advice.  
On contact with skin: Wash off immediately with soap and water. In case of skin reactions, seek medical advice.  
On contact with the eyes: Rinse the eyes with water with the eyelids open for a sufficient length of time, then seek ophthalmological advice immediately.  
If swallowed: Rinse out mouth and then drink plenty of water. Do not induce vomiting. Seek medical advice.  
Information for the doctor: First aid, decontamination, symptomatic treatment.

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## 5. Fire-fighting measures

Suitable extinguishing media:	Water, foam, dry fire-extinguishing media, carbon dioxide
Extinguishing media which must not be used for safety reasons:	None known
Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:	None known
Special protective equipment for firefighting:	Not necessary
Additional information:	Cool endangered containers with water spray jet and if possible remove off fire area.

## 6. Accidental release measures

Personal precautions:	Use personal protective clothing. High risk of slipping due to leakage/spillage of product.
Environmental precautions:	Do not empty into drains/surface water/ground water.
Methods for cleaning up/taking up:	Treat recovered material as prescribed in: Disposal considerations.

## 7. Handling and storage

Hints for safe handling:	Avoid contact with skin and eyes.
Hints for protection against fire and explosion:	Product is not flammable.
Further information:	Not necessary
Requirements for storage rooms and vessels:	Keep tightly closed and store only in original container.
Hints on storage assembly:	Not necessary
Further information on storage conditions:	Not necessary
Storage class:	LGK 10

## 8. Exposure controls / Personal protection

### Constituents with occupational exposure limits resp. biological occupational exposure limits requiring monitoring:

Does not contain substances above concentration limits fixing an occupational limit.

### General health and safety measures:

- Do not eat, drink, smoke while working.
- Wash hands before breaks and on finishing work.
- Preventive skin protection using barrier ointment.
- Keep away of foods and drinks.
- Avoid contact with eyes, skin and clothing.
- Avoid inhalation of aerosols and vapours.

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## Personal protection equipment:

Respiratory protection:	Not necessary if handled cautiously.
Hand protection:	E.g. natural rubber- or PVC-gloves are recommended.
Eye protection:	Tightly sealed goggles.
Protective clothing:	Not necessary if handled cautiously.

## 9. Physical and chemical properties

Form:	powdered	
Colour:	light-blue	
Odour:	characteristic	
pH-value (80 g/l H <sub>2</sub> O):	1,5-2,0	(20°C)
Boiling point/Boiling range:	not relevant to safety	
Melting point/Melting range:	not relevant to safety	
Flash point (DIN, TRbF):	>55°C	
Flammability (solid, gases):	not determinable	
Explosive properties:	none	
Lower explosion limit:	none	
Upper explosion limit:	none	
Ignition temperature:	not necessary	
Oxidizing properties:	none	
Vapour pressure:	not necessary	at ...°C
Density:	not determinable	at ...°C
Bulk density:	not necessary	at ...°C
Solubility in water:	1330 g/l	
in ethanol:	soluble	
in hexan:	not soluble	
Partition coefficient:	not necessary	(n-octanol/water)
Viscosity (sort):	not necessary	at ...°C
Electrical conductivity (80 g/l H <sub>2</sub> O):	5500-6000 µS/cm	(20°C)
Refractive index n <sub>D</sub> (80 g/l H <sub>2</sub> O):	1,3418-1,3433	(20°C)
Optical rotation α <sub>D</sub> :	not necessary	

## 10. Stability and reactivity

Conditions to avoid:	No hazardous decomposition products if stored and handled as prescribed.
Materials to avoid:	No hazardous reactions with other substances known.
Hazardous decomposition products:	No decomposition if used as prescribed.

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## 11. Toxicological information

Acute toxicity:	No acute toxicity known.
Primary irritant effect on the skin:	No primary irritant effect on the skin known.
Primary irritant effect on the eye:	Irritating to eyes.
Mutagenic potential:	No mutagenic potential known.
Sensitization:	No sensitizing effects known.

The product was classified on the basis of the calculation procedure of the preparation directive 1999/45/EC.

Based on manufacturer data of the main components the acute toxicity, the skin irritation, the mucous membrane irritation and the mutagenic potential of the preparation were evaluated. However, some data are not complete regarding particular main components. Nevertheless according to the experience of the manufacturer there are no other hazards expected than those which are already mentioned on the label.

## 12. Ecological information

Ecotoxicity:	Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.
Persistence and degradation:	Ingredients are biodegradable.
Other adverse effects:	No other adverse effects known.
Further information:	Do not allow product to reach ground water or waters and do not empty undiluted product into sewers.

## 13. Disposal considerations

### Disposal of the product:

In the EC member states there are no standardized regulations for the disposal of chemicals. In Germany the law of the cycle of economy and waste (KrW/AbfG) prescribes the principle of utilization and therefore a distinction must be made between "waste for utilization" and "waste for removal". Furthermore special cases – particularly in case of delivery – are also regulated by the federal states. Please contact the corresponding office (authority or waste disposal company) who will inform you about the utilization or removal.

Waste code no.\*: 16 03 05

### Disposal of uncleaned as well as completely emptied packings:

Disposal according to official regulations. Contaminated packings are to be treated like the substance.

Waste code no.\*: 15 01 10

### Further information:

If there is no official regulation, non-contaminated packings can be treated like domestic waste or can be recycled.

\*Waste code no.: Waste incurred is classified following the code of the European waste register according to kind of waste and branch.

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## 14. Transport information

No hazardous material as defined by the transport regulations (ADR/RID, IMDG-Code, ICAO-TI/IATA-DGR)

## 15. Regulatory information

### Labelling

Code letter:	Xi	
Hazard designation:	Irritant	
contains:	-	
R-phrases:	R36	Irritating to eyes.
S-phrases:	S24	Avoid contact with skin.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S39	Wear eye/face protection.

Special labelling of certain preparations (preparation directive 1999/45/EC annex V):  
not necessary

### National regulations (Germany)

Restrictions of occupation:	Juvenile in relation to § 22 JArbSchG
Störfallverordnung:	-
Classification according to VbF:	Not subject to the VbF
Technische Anleitung Luft:	-
Water hazard class:	WGK 1 (slightly water hazardous); self-classification

## 16. Other information

### Full text of R-phrases appearing in section 3:

R36 Irritating to eyes.

### Further information:

This information is based on our present knowledge and describes the safety measures which are to be taken for this product. However, this shall not constitute a guarantee for any product features.

### Marking of changes:

A backslash in the left hand margin indicates an amendment from the previous version.

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Trade name: **BRS Activator**  
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## 1. Identification of the substance/preparation and of the company/undertaking

Trade name: **BRS Activator**

Recommended use: Together with BRS Remover the BRS Activator causes the basic cleaning (removal of biofilm) of the process water lines in dental treatment units before the use of Alpron or Bilpron.

Effect of the preparation: Cleansing agent

Manufacturer: ALPRO MEDICAL GMBH  
Mooswiesenstr. 9  
D-78112 St. Georgen (Germany)  
Telephone: +49 7725 9392-0  
Telefax: +49 7725 9392-91  
Email: [alpro@alpro-medical.de](mailto:alpro@alpro-medical.de)  
Internet: [www.alpro-medical.com](http://www.alpro-medical.com)

Technical contact point: +49 7725 9392-0

Emergency phone: +49 7725 9392-0 (business hours)  
+49 761 19240 Poisoning-information-central, Freiburg (24h emergency call)

## 2. Hazards identification

This product does not require labelling in terms of preparation guideline 1999/45/EC.

## 3. Composition/information on ingredients

Chemical characterization: Mixture of tensides with nonhazardous additions.

Does not contain hazardous ingredients above concentration limits fixed in preparation guideline 1999/45/EC.

## 4. First aid measures

General information: Note precautions for self-protection.

On inhalation: No special measures necessary.

On contact with skin: Wash off with soap and water.

On contact with the eyes: Rinse the eyes with water with the eyelids open for a sufficient length of time.

If swallowed: Rinse out mouth and then drink plenty of water.

Information for the doctor: First aid, decontamination, symptomatic treatment.

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## 5. Fire-fighting measures

Suitable extinguishing media:	Water, foam, dry fire-extinguishing media, carbon dioxide
Extinguishing media which must not be used for safety reasons:	None known
Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:	None known
Special protective equipment for firefighting:	Not necessary
Additional information:	Cool endangered containers with water spray jet and if possible remove off fire area.

## 6. Accidental release measures

Personal precautions:	Use personal protective clothing. High risk of slipping due to leakage/spillage of product.
Environmental precautions:	Contain spillage with absorbing material, e.g. with sand.
Methods for cleaning up/taking up:	Treat recovered material as prescribed in: Disposal considerations.

## 7. Handling and storage

Hints for safe handling:	Not necessary
Hints for protection against fire and explosion:	Product is not flammable.
Further information:	Not necessary
Requirements for storage rooms and vessels:	Keep tightly closed and store only in original container.
Hints on storage assembly:	Not necessary
Further information on storage conditions:	Not necessary
Storage class:	LGK 10

## 8. Exposure controls / Personal protection

**Constituents with occupational exposure limits resp. biological occupational exposure limits requiring monitoring:**

Does not contain substances above concentration limits fixing an occupational limit.

**General health and safety measures:**

Do not eat, drink, smoke while working.  
Wash hands before breaks and on finishing work.  
Preventive skin protection using barrier ointment.  
Keep away of foods and drinks.  
Avoid contact with eyes, skin and clothing.  
Avoid inhalation of aerosols and vapours.

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## Personal protection equipment:

Respiratory protection: Not necessary.  
Hand protection: Not necessary.  
Eye protection: Goggles are recommended.  
Protective clothing: Not necessary.

## 9. Physical and chemical properties

Form:	liquid	
Colour:	light green, clear	
Odour:	of tenside	
pH-value (undiluted):	8,5-9,5	(20°C)
Boiling point/Boiling range:	not relevant to safety	
Melting point/Melting range:	not relevant to safety	
Flash point (DIN, TRbF):	>55°C	
Flammability (solid, gases):	not determinable	
Explosive properties:	none	
Lower explosion limit:	none	
Upper explosion limit:	none	
Ignition temperature:	not necessary	
Oxidizing properties:	none	
Vapour pressure:	not necessary	at ...°C
Density:	0,991-0,999 g/cm <sup>3</sup>	at 20°C
Bulk density:	not determinable	at ...°C
Solubility in water:	soluble	
in ethanol:	soluble	
in hexan:	not soluble	
Partition coefficient:	not necessary	(n-octanol/water)
Viscosity (sort):	not necessary	at ...°C
Electrical conductivity (undiluted):	2000-2500 µS/cm	(20°C)
Refractive index nD:	not necessary	(20°C)
Optical rotation αD:	not necessary	

## 10. Stability and reactivity

Conditions to avoid:	No hazardous decomposition products if stored and handled as prescribed.
Materials to avoid:	No hazardous reactions with other substances known.
Hazardous decomposition products:	No decomposition if used as prescribed.



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## 11. Toxicological information

Acute toxicity:	No acute toxicity known.
Primary irritant effect on the skin:	No primary irritant effect on the skin known.
Primary irritant effect on the eye:	No primary irritant effect on the eye known.
Mutagenic potential:	No mutagenic potential known.
Sensitization:	No sensitizing effects known.

The product was classified on the basis of the calculation procedure of the preparation directive 1999/45/EC.

Based on manufacturer data of the main components the acute toxicity, the skin irritation, the mucous membrane irritation and the mutagenic potential of the preparation were evaluated. However, some data are not complete regarding particular main components. Nevertheless according to the experience of the manufacturer there are no other hazards expected than those which are already mentioned on the label.

## 12. Ecological information

Ecotoxicity:	Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.
Persistence and degradation:	Ingredients are biodegradable.
Other adverse effects:	No other adverse effects known.
Further information:	Do not allow product to reach ground water or waters and do not empty undiluted product into sewers.

## 13. Disposal considerations

### Disposal of the product:

In the EC member states there are no standardized regulations for the disposal of chemicals. In Germany the law of the cycle of economy and waste (KrW/AbfG) prescribes the principle of utilization and therefore a distinction must be made between "waste for utilization" and "waste for removal". Furthermore special cases – particularly in case of delivery – are also regulated by the federal states. Please contact the corresponding office (authority or waste disposal company) who will inform you about the utilization or removal.

Waste code no.\*: 16 10 02

### Disposal of uncleaned as well as completely emptied packings:

Disposal according to official regulations. Contaminated packings are to be treated like the substance.

Waste code no.\*: 15 01 02

### Further information:

If there is no official regulation, non-contaminated packings can be treated like domestic waste or can be recycled.

\*Waste code no.: Waste incurred is classified following the code of the European waste register according to kind of waste and branch.

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**14. Transport information**

No hazardous material as defined by the transport regulations (ADR/RID, IMDG-Code, ICAO-TI/IATA-DGR)

**15. Regulatory information**

**Labelling**

Code letter: -  
Hazard designation: -  
contains: -  
R-phrases: -  
S-phrases: -

Special labelling of certain preparations (preparation directive 1999/45/EC annex V):  
not necessary

**National regulations (Germany)**

Restrictions of occupation:	None
Störfallverordnung:	-
Classification according to VbF:	Not subject to the VbF
Technische Anleitung Luft:	-
Water hazard class:	WGK 0 (not water hazardous); self-classification

**16. Other information**

**Further information:**

This information is based on our present knowledge and describes the safety measures which are to be taken for this product. However, this shall not constitute a guarantee for any product features.

**Marking of changes:**

There are no changes so far.

**Safety Data Sheet**  
according to regulation (EC) 1907/2006 (REACH)



Trade name: **BRS NaOCl**  
Revised at: 20.01.2011  
Print date: 21.01.2011

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**1. Identification of the substance/preparation and of the company/undertaking**

Trade name: **BRS NaOCl**  
Recommended use: Cleaning of the process water lines in dental treatment units as a partial measure of the Biofilm-Removing-Set before the use of Alpron or Bilpron.  
Effect of the preparation: Cleansing agent  
Manufacturer: ALPRO MEDICAL GMBH  
Mooswiesenstr. 9  
D-78112 St. Georgen (Germany)  
Telephone: +49 7725 9392-0  
Telefax: +49 7725 9392-91  
Email: [alpro@alpro-medical.de](mailto:alpro@alpro-medical.de)  
Internet: [www.alpro-medical.com](http://www.alpro-medical.com)  
Technical contact point: +49 7725 9392-0  
Emergency phone: +49 7725 9392-0 (business hours)  
+49 761 19240 Poisoning-information-central, Freiburg (24h emergency call)

**2. Hazards identification**

R31 Contact with acids liberates toxic gas.

**3. Composition/information on ingredients**

Chemical characterization: Mixture of substances listed below with nonhazardous additions in aqueous solution.

<i>Hazardous ingredients</i>	<i>CAS-No.</i>	<i>Weight-%</i>	<i>Code letter</i>	<i>R-phrases*</i>
Sodium hypochlorite (13% active chlorine)	7681-52-9	5-15%	C	31, 34

Note: The product BRS NaOCl contains effectively sodium hypochlorite with 1-2% active chlorine.

\*Full text of R-phrases: see under section 16

**4. First aid measures**

General information: Note precautions for self-protection.  
On inhalation: Move affected person into fresh air and keep still and warm. In case of irritation of the airways, seek medical advice.  
On contact with skin: Wash off immediately with soap and water. In case of skin reactions, seek medical advice.  
On contact with the eyes: Rinse the eyes with water with the eyelids open for a sufficient length of time, then seek ophthalmological advice immediately.  
If swallowed: Rinse out mouth and then drink plenty of water. Do not induce vomiting. Seek medical advice.  
Information for the doctor: First aid, decontamination, symptomatic treatment.

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Trade name: **BRS NaOCl**

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## 5. Fire-fighting measures

Suitable extinguishing media:	Water, foam, dry fire-extinguishing media, carbon dioxide
Extinguishing media which must not be used for safety reasons:	None known
Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:	Substances potentially set free in case of fire: Chlorine, hydrogen chloride, dichloroxide
Special protective equipment for firefighting:	Not necessary
Additional information:	Cool endangered containers with water spray jet and if possible remove off fire area.

## 6. Accidental release measures

Personal precautions:	Use personal protective clothing. High risk of slipping due to leakage/spillage of product.
Environmental precautions:	Contain spillage with absorbing material, e.g. with sand.
Methods for cleaning up/taking up:	Treat recovered material as prescribed in: Disposal considerations.

## 7. Handling and storage

Hints for safe handling:	Avoid contact with skin and eyes. Do not mix with acids.
Hints for protection against fire and explosion:	Product is not flammable.
Further information:	Not necessary
Requirements for storage rooms and vessels:	Keep tightly closed and store only in original container.
Hints on storage assembly:	Not necessary
Further information on storage conditions:	Not necessary
Storage class:	LGK 10

## 8. Exposure controls / Personal protection

### Constituents with occupational exposure limits resp. biological occupational exposure limits requiring monitoring:

Maximum occupational exposure concentration; see TRGS 900 (German regulation)

Chlorine	CAS-No.: 7782-50-5	Air limit value: 0,5 ml/m <sup>3</sup> ; 1,5 mg/m <sup>3</sup>
Overflow factors for short-term values:		Peak limitation-category 1(I)

### General health and safety measures:

- Do not eat, drink, smoke while working.
- Wash hands before breaks and on finishing work.
- Preventive skin protection using barrier ointment.
- Keep away of foods and drinks.
- Avoid contact with eyes, skin and clothing.
- Avoid inhalation of aerosols and vapours.

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## Personal protection equipment:

Respiratory protection:	Not necessary if handled cautiously.
Hand protection:	E.g. natural rubber- or PVC-gloves are recommended.
Eye protection:	Tightly sealed goggles are recommended.
Protective clothing:	Not necessary if handled cautiously.

## 9. Physical and chemical properties

Form:	liquid	
Colour:	slightly yellowish, clear	
Odour:	slightly of chlorine	
pH-value:	10-11	(20°C)
Boiling point/Boiling range:	not relevant to safety	
Melting point/Melting range:	not relevant to safety	
Flash point (DIN, TRbF):	>55°C	
Flammability (solid, gases):	not determinable	
Explosive properties:	none	
Lower explosion limit:	none	
Upper explosion limit:	none	
Ignition temperature:	not necessary	
Oxidizing properties:	none	
Vapour pressure:	not necessary	at ...°C
Density:	1,015-1,025 g/cm <sup>3</sup>	at 20°C
Bulk density:	not determinable	at ...°C
Solubility in water:	soluble	
in ethanol:	soluble	
in hexan:	not soluble	
Partition coefficient:	not necessary	(n-octanol/water)
Viscosity (sort):	not necessary	at ...°C
Electrical conductivity:	not necessary	(20°C)
Refractive index nD:	1,3374-1,3380	(20°C)
Optical rotation αD:	not necessary	

## 10. Stability and reactivity

Conditions to avoid:	Thermically autocatalysed movement to NaClO <sub>3</sub> and NaCl.
Materials to avoid:	Acids, reducing agents. Reacts with acids and salts by developing chlorine.
Hazardous decomposition products:	Hydrogen chloride, chlorine.

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## 11. Toxicological information

Acute toxicity:	No acute toxicity known.
Primary irritant effect on the skin:	No primary irritant effect on the skin known.
Primary irritant effect on the eye:	No primary irritant effect on the eye known.
Mutagenic potential:	No mutagenic potential known.
Sensitization:	No sensitizing effects known.

The product was classified on the basis of the calculation procedure of the preparation directive 1999/45/EC.

Based on manufacturer data of the main components the acute toxicity, the skin irritation, the mucous membrane irritation and the mutagenic potential of the preparation were evaluated. However, some data are not complete regarding particular main components. Nevertheless according to the experience of the manufacturer there are no other hazards expected than those which are already mentioned on the label.

## 12. Ecological information

Ecotoxicity:	Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.
Persistence and degradation:	Ingredients are biodegradable.
Other adverse effects:	No other adverse effects known.
Further information:	Do not allow product to reach ground water or waters and do not empty undiluted product into sewers.

## 13. Disposal considerations

### Disposal of the product:

In the EC member states there are no standardized regulations for the disposal of chemicals. In Germany the law of the cycle of economy and waste (KrW/AbfG) prescribes the principle of utilization and therefore a distinction must be made between "waste for utilization" and "waste for removal". Furthermore special cases – particularly in case of delivery – are also regulated by the federal states. Please contact the corresponding office (authority or waste disposal company) who will inform you about the utilization or removal.

Waste code no.\*: 16 10 04

### Disposal of uncleaned as well as completely emptied packings:

Disposal according to official regulations. Contaminated packings are to be treated like the substance.

Waste code no.\*: 15 01 02

### Further information:

If there is no official regulation, non-contaminated packings can be treated like domestic waste or can be recycled.

\*Waste code no.: Waste incurred is classified following the code of the European waste register according to kind of waste and branch.

## 14. Transport information

No hazardous material as defined by the transport regulations (ADR/RID, IMDG-Code, ICAO-TI/IATA-DGR)

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**15. Regulatory information**

**Labelling**

Code letter: -  
Hazard designation: -  
contains: -  
R-phrases: R31 Contact with acids liberates toxic gas.  
S-phrases: -

Special labelling of certain preparations (directive 67/548/EEC annex I, nota B):

Contains sodium hypochlorite solution with 1 - 2 % active chlorine

**National regulations (Germany)**

Restrictions of occupation: None  
Störfallverordnung: -  
Classification according to VbF: Not subject to the VbF  
Technische Anleitung Luft: -  
Water hazard class: WGK 2 (water hazardous); self-classification

**16. Other information**

**Full text of R-phrases appearing in section 3:**  
**(This is not the classification of the product BRS NaOCl!)**

R31 Contact with acids liberates toxic gas.  
R34 Causes burns.

**Further information:**

This information is based on our present knowledge and describes the safety measures which are to be taken for this product. However, this shall not constitute a guarantee for any product features.

**Marking of changes:**

A backslash in the left hand margin indicates an amendment from the previous version.