

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 06.02.2012

Revision: 04.01.2012

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

- **Product identifier**
- **Trade name:** SAN ALCALIN
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** SU1 Agriculture, forestry, fishery
- **Product category** PC8 Biocidal products (e.g. Disinfectants, pest control)
- **Application of the substance / the preparation**  
Disinfectant  
Cleaning agent/ Cleaner
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
BouMatic Gascoigne Melotte  
31 Rue Jules Mélotte  
B-4350 Remicourt  
BELGIUM
- **Further information obtainable from:**  
Legal Department  
e-mail: [cmalbrouck@boumatic.com](mailto:cmalbrouck@boumatic.com)
- **Emergency telephone number:** Tel.-Nr.: +1813-248-0585

## 2 Hazards identification

- **Classification of the substance or mixture**  
Additional labelling requirement: EUH031 Contact with acids liberates toxic gas.
- **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

Met. Corr.1 H290 May be corrosive to metals.  
Skin Corr. 1A H314 Causes severe skin burns and eye damage.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



C; Corrosive

R35: Causes severe burns.  
R31: Contact with acids liberates toxic gas.

- **Information concerning particular hazards for human and environment:**  
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **Label elements**

- **Labelling according to EU guidelines:**  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- **Code letter and hazard designation of product:**



C Corrosive

- **Hazard-determining components of labelling:**  
sodium hydroxide  
sodium hypochlorite, solution

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**· Risk phrases:**

- 31 Contact with acids liberates toxic gas.
- 35 Causes severe burns.

**· Safety phrases:**

- 2 Keep out of the reach of children.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 50 Do not mix with acids.
- 60 This material and its container must be disposed of as hazardous waste.

**· Other hazards****· Results of PBT and vPvB assessment**


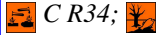
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

**· Chemical characterization: Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

**· Dangerous components:**

CAS: 1310-73-2 EINECS: 215-185-5	sodium hydroxide  C R35 Skin Corr. 1A, H314	2.5-10%
CAS: 7681-52-9 EINECS: 231-668-3	sodium hypochlorite, solution  C R34; N R50 R31 Skin Corr. 1B, H314; Aquatic Acute 1, H400	2.5-10%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

**· Description of first aid measures****· General information:**

- Immediately remove any clothing soiled by the product.
- Never give anything by mouth to an unconscious person.

**· After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

**· After skin contact:**

- If skin irritation continues, consult a doctor.
- 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:**

- Call for a doctor immediately.
- Never give anything by mouth.

**· 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.

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### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture**  
A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe fumes.  
In case of fire may form:
  - Chlorine (Cl<sub>2</sub>)
  - Phosgene (CCl<sub>2</sub>O)
  - Hydrogen chloride
  - Oxides of chlorine
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Collect contaminated fire fighting water separately. It must not enter the sewage system.  
The spill makes roads slippery.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.  
Avoid contact with skin and eyes.
- **Environmental precautions:**  
Do not allow to enter sewers/ surface or ground water.  
Contain and collect spillage with non-combustible absorbent material (eg sand, earth, vermicullite, diatomaceous earth) in drums for waste disposal.
- **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 item 13.  
Ensure adequate ventilation.  
Use an acid neutralizer.  
Clean preferably with a detergent, avoid use of solvents.  
If the ground is contaminated, and after recovery of the product by sponging with an inert absorbent and non-combustible material, flush the surface that was contaminated with water.
- **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**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Always keep in containers of same material as the original.  
Container equipped with a degassing system.
- **Information about storage in one common storage facility:**  
Do not store together with acids.  
Do not store together with ammonium salts.
- **Further information about storage conditions:**  
Do not seal receptacle gas tight.

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- Protect from heat and direct sunlight.
- Keep at temperature not exceeding 40°C.
- **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 item 7.
- **Control parameters**

· <b>Ingredients with limit values that require monitoring at the workplace:</b>
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<b>1310-73-2 sodium hydroxide</b>
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WEL Short-term value: 2 mg/m <sup>3</sup>
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- **Additional information:** The lists valid during the making were used as basis.

- **Exposure controls**
- **Personal protective equipment:**
- **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 and skin.
  - Do not eat, drink, smoke or sniff while working.
  - Provide adequate ventilation, especially in confined areas.
  - Provide eye washes in work places where the product is constantly handled.
- **Respiratory protection:**
  - Not necessary if room is well-ventilated.
  - Combined filter B-P2, P3-B.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**
  - Natural rubber, NR
  - Nitrile rubber, NBR
  - PVC gloves
  - PVA gloves
  - Butyl rubber, BR
  - Waterproof gloves compliant with norm NF EN374.
- **Penetration time of glove material**
  - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

Before handling, it is necessary to wear goggles with side protection according to the NF EN166.  
In case of increased danger, use a face shield to protect the face.

- **Body protection:**
  - Protective work clothing
  - Type of suitable protective clothing:
  - In case of heavy projections, wear chemical protective clothing impervious to liquids (type 3) compliant with

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standard NF EN14605 to avoid contact with skin.

If risk of splashing, wear chemical protective clothing (type 6) compliant with standard NF EN13034 to avoid contact with skin.

Wear appropriate protective clothing and especially coveralls and boots. These clothes will be maintained in good condition and cleaned after use.

After contact with the product, all parts of the body should be washed.

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

Form:	Fluid
Colour:	Light yellow
Odour:	Chlorine-like

· pH-value at 20°C: 14

#### · Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· Flash point: Not applicable.

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

· Vapour pressure: < 110 kPa (1.10 bar)

· Density: > 1 g/cm<sup>3</sup>

· Solubility in / Miscibility with water: Fully miscible.

#### · Viscosity:

Kinematic at 40°C:  $\nu < 7 \text{ mm}^2/\text{s}$

· Other information: No further relevant information available.

## 10 Stability and reactivity

### · Reactivity

#### · Chemical stability

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

#### · Possibility of hazardous reactions

Corrosive action on metals.

Contact with acids releases toxic gases.

· Conditions to avoid: Protect from frost, heat and direct sunlight.

#### · Incompatible materials:

Keep away from:

- Acids
- Light metals
- Organic matter
- Ammonium compounds
- Acetic anhydride
- Hydrogen peroxide
- Metal salts

#### · Hazardous decomposition products:

Thermal decomposition may produce:

- Chlorine (Cl<sub>2</sub>)
- Phosgene (CCl<sub>2</sub>O)

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- Oxides of chlorine

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**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

**1310-73-2 sodium hydroxide**

Oral LD50 2000 mg/kg (rat)

**7681-52-9 sodium hypochlorite, solution**

Oral LD50 5800 mg/kg (mouse)

- **Primary irritant effect:**
- **on the skin:** Strong caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** No sensitizing effects known.
- **Other information (about experimental toxicology):**  
May cause irreversible damage to the skin, as a necrosis visible through the epidermis and in the dermis, following exposure from three minutes to one hour.  
Corrosive reactions are characterized by ulcers, bleeding, bloody scabs and, at the end of an observation period of 14 days, by discoloration due to blanching of the skin, complete areas of alopecia and scars.  
Repeated or prolonged contact with the mixture can remove the natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.  
Splashes in the eyes may cause irritation and reversible damage.
- **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:  
Corrosive  
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

**12 Ecological information**

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Other information:** Mobile in water.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Must not reach sewage water or drainage ditch undiluted or unneutralized.  
Danger to drinking water if even small quantities leak into the ground.  
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**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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### 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Appropriate management of mixed waste and/or its container must be determined in accordance with Directive 2008/98/EC.

Recycle or dispose in accordance with current legislation, preferably via a certified collector or company. Do not contaminate soil or water with waste, do not dispose of them in the environment.

· **Uncleaned packaging:**

· **Recommendation:**

Disposal must be made according to official regulations.

Completely empty the container. Keep the label (s) on the container. Give to a certified disposal contractor.

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

### 14 Transport information

· **UN-Number**

· **ADR, IMDG, IATA**

UN3266

· **UN proper shipping name**

· **ADR**

3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE, HYPOCHLORITE SOLUTION)

· **IMDG, IATA**

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE, HYPOCHLORITE SOLUTION)

· **Transport hazard class(es)**

· **ADR**



· **Class**

8 Corrosive substances.

· **Label**

8

· **IMDG, IATA**



· **Class**

8 Corrosive substances.

· **Label**

8

· **Packing group**

· **ADR, IMDG, IATA**

III

· **Environmental hazards:**

· **Marine pollutant:**

No

· **Special precautions for user**

Warning: Corrosive substances.

· **Danger code (Kemler):**

80

· **EMS Number:**

F-A,S-B

· **Segregation groups**

Alkalis

· **Transport in bulk according to Annex II of**

**MARPOL73/78 and the IBC Code**

Not applicable.

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**· Transport/Additional information:****· ADR**

- |                                  |    |
|----------------------------------|----|
| · <b>Limited quantities (LQ)</b> | 5L |
| · <b>Transport category</b>      | 3  |
| · <b>Tunnel restriction code</b> | E  |

- |                                 |  |
|---------------------------------|--|
| · <b>UN "Model Regulation":</b> | UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE, HYPOCHLORITE SOLUTION), 8, III |
|---------------------------------|--|

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to EU guidelines:**  
*Labelling of detergents (Regulations EC No. 648/2004 and 907/2006):*  
 - disinfectants  
*Labelling of biocides (Regulations 1896/2000/CE, 1687/2002/CE, 2032/2003/CE, 1048/2005/CE, 1849/2006/CE, 1451/2007/CE and Directive 98/8/EC):*  
*Active ingredient: SODIUM HYPOCHLORITE SOLUTION ... % ACTIVE CL, CAS 7681-52-9, 50 g/kg; TP04*
- **National regulations:**
- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**· Relevant phrases**

*H314 Causes severe skin burns and eye damage.*

*H400 Very toxic to aquatic life.*

*R31 Contact with acids liberates toxic gas.*

*R34 Causes burns.*

*R35 Causes severe burns.*

*R50 Very toxic to aquatic organisms.*

**· Department issuing MSDS: Legal Department****· Contact: Mrs. Malbrouck****· Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*ICAO: International Civil Aviation Organization*

*GHS: Globally Harmonized System of Classification and Labelling of Chemicals*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*