Material Safety Data Sheet
Sodium Hypochlorite (5% Chlorine), Reagent

MSDS# 95571

Section 1 - Chemical Product and Company Identification

MSDS Name: Sodium Hypochlorite (5% Chlorine), Reagent
Catalog Numbers: AC419550000, AC419550010, AC419550250
Synonyms: Antiformin; Sodium Chloride Oxide; Sodium Oxychloride.

Company Identification:

Acros Organics BVBA
Janssen Pharmaceuticaal 3a
2440 Geel, Belgium

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call:
800-ACROS-01

For information in Europe, call:
+32 14 57 52 11

Emergency Number, Europe:
+32 14 57 52 99

CHEMTREC Phone Number, US:
800-424-9300

CHEMTREC Phone Number, Europe:
703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#:
7681-52-9

Chemical Name:
Sodium Hypochlorite, 5% Active Chlorine, Reagent

%: ca. 95.0

EINECS#:
231-668-3

Hazard Symbols: XI

Risk Phrases: 31 36/38

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! May cause respiratory tract irritation. Causes eye and skin irritation. Contact with acids liberates toxic gas. Target Organs: Eyes, skin.

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation.

Ingestion: Causes gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema.

Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower
**Section 5 - Fire Fighting Measures**

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Substance is noncombustible. Oxidizer. Greatly increases the burning rate of combustible materials.

Extinguishing Media: Use extinguishing media most appropriate for the surrounding fire.

Autoignition Temperature: Not available.

Flash Point: Not available

Explosion Limits: Lower: N/A

Explosion Limits: Upper: N/A

NFPA Rating: health: 2; flammability: 0; instability: 1; 

**Section 6 - Accidental Release Measures**

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation.

Section 7 - Handling and Storage

Handling: combustible materials. Avoid ingestion and inhalation. Use with adequate ventilation. Use only in a chemical fume hood. Discard contaminated shoes.

Storage: Store in a tightly closed container. Keep refrigerated. (Store below 4°C/39°F.)

**Section 8 - Exposure Controls, Personal Protection**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
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<tbody>
<tr>
<td>Sodium Hypochlorite</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
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<tr>
<td>5% Active Chlorine</td>
<td></td>
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<tr>
<td>Reagent</td>
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OSHA Vacated PELs: Sodium Hypochlorite, 5% Active Chlorine, Reagent: None listed

Engineering Controls:
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a
Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Color: clear colorless to pale yellow
Odor: Disagreeable, sweetish odor
pH: Not available
Vapor Pressure: 17.5 mm Hg @ 20C
Vapor Density: 2.57
Evaporation Rate: Not available
Viscosity: Not available
Boiling Point: Not available
Freezing/Melting Point: Not available
Decomposition Temperature: Not available
Solubility in water: soluble in water
Specific Gravity/Density: 1.097
Molecular Formula: ClNaO
Molecular Weight: 74.44

Section 10 - Stability and Reactivity

Chemical Stability: Light sensitive. Sodium hypochlorite solutions decompose slowly at normal temperatures releasing low concentrations of corrosive chlorine gas. Decomposition is influenced by temperature, concentration, pH, ionic strength, exposure to light and the presence of metals.

Conditions to Avoid: Incompatible materials, light, combustible materials.

Incompatibilities with Other Materials: Metals, oxidizing agents, reducing agents, strong acids, acids (organic, e.g. acetic acid, benzoic acid, formic acid, methanoic acid, oxalic acid), methanol, ammonium salts.

Hazardous Decomposition Products: Hydrogen chloride, chlorine, sodium oxide.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 7681-52-9: NH3486300

RTECS: CAS# 7681-52-9: Draize test, rabbit, eye: 10 mg Moderate;
LD50/LC50: Draize test, rabbit, eye: 1.31 mg Mild;
Oral, mouse: LD50 = 5800 mg/kg;

Carcinogenicity: Sodium Hypochlorite, 5% Active Chlorine, Reagent - IARC: Group 3 (not classifiable)

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Other: No information available.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT
Shipping Name: HYPOCHLORITE SOLUTIONS
Hazard Class: 8
UN Number: UN1791
Packing Group: III
Canada TDG
Shipping Name: Not available
Hazard Class:
UN Number:
Packing Group:

USA RQ: CAS# 7681-52-9: 100 lb final RQ; 45.4 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives
Hazard Symbols: XI
Risk Phrases:
R 31 Contact with acids liberates toxic gas.
R 36/38 Irritating to eyes and skin.
Safety Phrases:
S 28A After contact with skin, wash immediately with plenty of water.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 50A Do not mix with acids.

WGK (Water Danger/Protection)
CAS# 7681-52-9: 2

Canada
CAS# 7681-52-9 is listed on Canada's DSL List
Canadian WHMIS Classifications: E, D2B
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.
CAS# 7681-52-9 is listed on Canada's Ingredient Disclosure List

US Federal
TSCA
CAS# 7681-52-9 is listed on the TSCA Inventory.

Section 16 - Other Information
MSDS Creation Date: 2/03/1999
Revision #6 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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