1. PRODUCT AND COMPANY IDENTIFICATION

Product name        Swisher Bio San
Product code       42088-1
Reference number(s) 42088-5
UN/ID No            UN1791
Recommended Use    Sanitizer
EPA Registration Number 550-197-72802

Distributor
Swisher Hygiene Inc.
4725 Piedmont Row Drive,
Suite 400,
Charlotte, NC 28210

Chemical Emergency Phone Number 800-424-9300 (Chemtrec)
Company Emergency Phone Number 800-444-4138

2. HAZARDS IDENTIFICATION

Emergency Overview
Causes severe irritation to eyes, skin, and mucous membranes.

Appearance Clear Liquid Physical state liquid. Odor Pungent, Chlorine

Potential Health Effects
Acute toxicity
   Eyes   Severe irritation and burning
   Skin   Reddening, eczema
   Inhalation Bronchial irritation, cough, difficulty breathing
   Ingestion Irritation of membranes of the mouth, throat, and stomach pain and possible ulceration

Chronic Effects No known effect based on information supplied

Aggravated Medical Conditions None known.

Environmental hazard See Section 12 for additional Ecological Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
### 4. FIRST AID MEASURES

**Eye contact**
Flush eyes with cool water for 15-30 minutes and get immediate medical attention.

**Skin contact**
Flush with water. Remove contaminated clothing and do not re-wear until washed. If irritation persists, see a physician.

**Inhalation**
Move to fresh air. If irritation persists, see a physician.

**Ingestion**
Drink water or milk. DO NOT INDUCE VOMITING. DO NOT USE BAKING SODA OR ACIDIC ANTIDOTES. Get medical attention immediately.

**Notes to physician**
Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Flammable Properties**
Not flammable

**Flash point**
N/A

**Suitable Extinguishing Media**
Dry chemical Water spray Alcohol-resistant foam

**Explosion Data**

| Sensitivity to Mechanical Impact | none |
| Sensitivity to Static Discharge   | none |

**Specific hazards arising from the chemical**
Can be decomposed by heat or acid. Chlorine gas is a strong fire promoter.

**Protective Equipment and Precautions for Firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA**
- Health Hazard: 0
- Flammability: 0
- Stability: 0
- Physical and chemical hazards: -

**HMIS**
- Health Hazard: 2
- Flammability: 0
- Physical Hazard: 1
- Personal protection: -

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**
Ensure adequate ventilation

**Environmental precautions**
Try to prevent the material from entering drains or water courses

**Methods for Containment**
Stop leak. Reduce spilled material with bisulfites or ferrous salt solutions (some heat will result). Keep solution alkaline to neutral. Dilute with large quantities of water.

**Methods for cleaning up**
Pick up and transfer to properly labeled containers

### 7. HANDLING AND STORAGE

**Advice on safe handling**
KEEP OUT OF REACH OF CHILDREN CAUTION Keep container tightly closed when not in use Wash hands before eating.
Technical measures/Storage conditions
Store in vented, closed, clean, non-corrosive containers in a cool, dry place away from heat and adjacent chemicals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines
Review Section 3 & 4 for Exposure Guidelines.

Engineering Measures
Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment Institutional Environment
Eye/Face Protection
Splash-proof chemical goggles or face shield.
Skin and body protection
Impervious rubber, alkali-proof protective gloves
Respiratory protection
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures
Practice good personal hygiene. Wash after handling.

Personal Protective Equipment Industrial Environment
Eye/Face Protection
Splash-proof chemical goggles or face shield.
Skin and body protection
Impervious rubber, alkali-proof protective gloves, Impervious rubber boots & apron.
Respiratory protection
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures
Practice good personal hygiene. Wash after handling. Shower at end of work period

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear Liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Pale yellow/green</td>
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<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Pungent Chlorine</td>
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</tr>
<tr>
<td>Evaporation rate</td>
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</tr>
<tr>
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<tr>
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10. STABILITY AND REACTIVITY

Stability  unstable

Incompatible products  Acids Ammonia Urea Nickel  Copper Oxidizable material Tin

Conditions to Avoid  None known based on information supplied

Hazardous Decomposition Products  Hypochlorous Acid (HOCl) Chlorine Hydrochloric Acid (HCl)

Hazardous Polymerization  Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product Information  Irritation to mucous membranes. Very little hazard from properly stored solution.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
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<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>8200 mg/kg  ( Rat )</td>
<td>10000 mg/kg ( Rabbit )</td>
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Chronic toxicity

<table>
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<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
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<tbody>
<tr>
<td>Sodium hypochlorite</td>
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<td></td>
<td></td>
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</tr>
</tbody>
</table>

Target Organ Effects  None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity  The environmental impact of this product has not been fully investigated
**13. DISPOSAL CONSIDERATIONS**

Waste Disposal Methods
Neutralized, diluted material may be flushed to sewer

Contaminated packaging
Do not re-use empty containers

**14. TRANSPORT INFORMATION**

**Note**
Hypochlorite solution, 8, UN 1791, PG III

**Dot**
Regulated

**Proper shipping name**
Hypochlorite solution, 8, UN 1791, PG III

**Hazard class**
8

**UN/ID No**
UN1791

**Packing Group**
III

**TDG**
Not regulated

**MEX**
Not regulated

**ICAO**
Not regulated

**ICAO/IATA**
Not regulated

**IMDG / IMO**
Not regulated

**RID**
Not regulated

**ADR/RID**
Not regulated

**ADN**
Not regulated

**15. REGULATORY INFORMATION**

<table>
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<td>TSCA</td>
<td>Complies</td>
<td>Complies</td>
<td>Complies</td>
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</table>

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Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
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<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>100 lb</td>
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</table>

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
<th>RQ</th>
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</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>100 lb</td>
<td></td>
<td>RQ 100 lb final RQ RQ 45.4 kg final RQ</td>
</tr>
</tbody>
</table>

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.
International Regulations

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

Prepared By: Swisher Hygiene Inc.
4725 Piedmont Row Drive
Suite 400
Charlotte, NC 28210

Issuing date: 11-Oct-2011
Revision Date: 11-Oct-2011
Revision Note: No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Material Safety Data Sheet