1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Swisher Optima
Product code: 42136-50
UN/ID No: UN3262
Recommended Use: Laundry Built Detergent

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

Danger! Causes eye burns. May cause skin and respiratory tract irritation. May be harmful if swallowed. Hygroscopic (absorbs moisture from the air).

Target Organs: Eyes, skin, respiratory system.

Appearance: White powder
Physical state: solid.
Odor: Bland Scent

OSHA Regulatory Status:
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Potential Health Effects

Acute toxicity

- Eyes: Causes burns
- Skin: May cause irritation with pain and possible burns when contacting wet material.
- Inhalation: May cause respiratory tract irritation. Irritation may lead to chemical pneumonitis and pulmonary edema.
- Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Chronic Effects
Prolonged or repeated contact with concentrated solutions causes tissue damage. Prolonged or repeated skin contact may cause dermatitis.

Main Symptoms
Symptoms of exposure may include burning sensation, coughing, wheezing, shortness of breath, headache, nausea, and vomiting. Burns and irritation. Diarrhea. Abdominal discomfort. Difficulty breathing.
3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>497-19-8</td>
<td>50.0-70.0</td>
</tr>
<tr>
<td>Alcohols, C12-18, ethoxylated</td>
<td>68213-23-0</td>
<td>10.0-30.0</td>
</tr>
<tr>
<td>Pentasodium triphosphate</td>
<td>7758-29-4</td>
<td>10.0-20.0</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Eye contact
In case of contact, immediately flush eyes with plenty of water for at least 20 minutes. Get medical aid immediately.

Skin contact
Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.

Inhalation
Remove to fresh air. If breathing has stopped, apply suitable artificial respiration. Get medical help.

Ingestion
If swallowed, DO NOT induce vomiting. Get medical attention immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

Notes to physician
Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties
FLAMMABLE

Flash point
N/A

Suitable Extinguishing Media
Use water spray, dry chemical, carbon dioxide, or chemical foam.

Hazardous Combustion Products
Toxic fumes of sodium oxide.

Explosion Data
Sensitivity to Mechanical Impact: none
Sensitivity to Static Discharge: none

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: 3  Flammability: 1  Physical Hazard: 0  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
Prevent further leakage or spillage if safe to do so

Methods for cleaning up
Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Keep unauthorized personnel away. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Provide ventilation. Stop leak if you can do it without risk. Requires a dust mask at a minimum. Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

7. HANDLING AND STORAGE
Advice on safe handling
Keep container tightly closed when not in use. Ensure adequate ventilation. Do not get in eyes, on skin or on clothing. Do not ingest or inhale. Wash thoroughly after handling. Minimize dust generation and accumulation.

Technical measures/Storage conditions
Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Exposure Guidelines
Review Section 3 & 4 for Exposure Guidelines.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentasodium triphosphate</td>
<td></td>
<td>15mg/m³</td>
<td></td>
</tr>
<tr>
<td>7758-29-4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Engineering Measures
Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment Institutional Environment
Eye/Face Protection
Safety glasses are suggested when using this product in heavy use and institutional environments.

Consumer Environments
Care should be taken to avoid Eye contact.

Skin and body protection
Rubber gloves

Respiratory protection
Unnecessary in open institutional environment.

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>solid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>White powder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>white</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Bland Scent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>11.8 (1%)</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

No information available
10. STABILITY AND REACTIVITY

Stability

Incompatible products

Conditions to Avoid

Hazardous Decomposition Products

Hazardous Reactions

Hazardous Polymerization

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>4090 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Chronic toxicity

Chronic toxicity

Prolonged or repeated contact with concentrated solutions causes tissue damage. Prolonged or repeated skin contact may cause dermatitis.

Target Organ Effects

None known.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
The environmental impact of this product has not been fully investigated

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to algae</th>
<th>Toxicity to fish</th>
<th>Toxicity to microorganisms</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>242: 120 h Nitzschia mg/L EC50</td>
<td>310 - 1220: 96 h Pimephales promelas mg/L LC50 static 300: 96 h Lepomis macrochirus mg/L LC50 static</td>
<td>265: 48 h Daphnia magna mg/L EC50</td>
<td></td>
</tr>
<tr>
<td>Pentasodium triphosphate</td>
<td></td>
<td>1650: 48 h Leuciscus idus mg/L LC50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods**
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**Contaminated packaging**
Do not re-use empty containers

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>Corrosive</td>
</tr>
</tbody>
</table>

### 14. TRANSPORT INFORMATION

**Note**
UN3262, Corrosive Solid, Basic, Inorganic, n.o.s. (Contains Sodium Metasilicate, Anhydrous and Sodium Hydroxide), 8, PG II

**Dot**
Regulated

**Proper shipping name**
UN3262, Corrosive Solid, Basic, Inorganic, n.o.s. (Contains Sodium Metasilicate, Anhydrous and Sodium Hydroxide), 8, PG II

**Hazard class**
8

**UN/ID No**
UN3262

**Packing Group**
II

**TDG**
Not regulated

**MEX**
Not regulated

**ICAO**
Not regulated
15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Not regulated</td>
</tr>
<tr>
<td>DSL</td>
<td>Complies</td>
</tr>
<tr>
<td>NDSI</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS</td>
<td>-</td>
</tr>
<tr>
<td>ELINCS</td>
<td>-</td>
</tr>
<tr>
<td>ENCS</td>
<td>Complies</td>
</tr>
<tr>
<td>IECSC</td>
<td>Complies</td>
</tr>
<tr>
<td>KECL</td>
<td>Complies</td>
</tr>
<tr>
<td>PICCS</td>
<td>Complies</td>
</tr>
<tr>
<td>AICS</td>
<td>Complies</td>
</tr>
</tbody>
</table>

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Sudden Release of Pressure Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>no</td>
</tr>
</tbody>
</table>

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).

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.
U.S. State Regulations

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

U.S. State Right-to-Know Regulations

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 27-Dec-2011
Revision Date 27-Dec-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