Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Swisher Reclalm Plus Destainer
Product code: 41859
UN/ID No: UN1759
Recommended Use: Laundry Destainer

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
Mists & vapors are irritating to the eyes & skin and exposure can cause severe burns.

Potential Health Effects

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powder</td>
<td>Characteristic</td>
</tr>
</tbody>
</table>

Acute toxicity
- Eyes: Irritating to eyes
- Skin: Irritating to skin
- Inhalation: No known effect based on information supplied
- Ingestion: Causes irritation

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).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>&lt;30</td>
</tr>
<tr>
<td>Sodium metasilicate</td>
<td>6834-92-0</td>
<td>&lt;25</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

Eye contact
Flush with flowing water for 15 minutes & see physician.

Skin contact
Flush with flowing water for 15 minutes. See physician if irritation persists. Remove contaminated clothing and shoes.

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

Ingestion
If swallowed, give several cups of water or milk to dilute. Do not induce vomiting. Get medical attention. Do not give anything by mouth to an unconscious person.

Notes to physician
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties
Not flammable

Flash point
N/A

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

Specific hazards arising from the chemical
Use NIOSH certified gas mask with canister for Chlorine. If possible, remove material to open air and flood with water.

Protective Equipment and Precautions for Firefighters
Not considered flammable. Protect from irritating mists and corrosive solutions with pressure demand, self-contained respirator and protective clothing.

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

HMIS
Health Hazard 0  Flammability 0  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
Contain spill, dilute with water and neutralize as required.

Methods for cleaning up
Wash away small spills with plenty of water.

7. HANDLING AND STORAGE

Advice on safe handling
KEEP OUT OF REACH OF CHILDREN. Avoid contact with eyes. Do not take internally. Avoid contamination of food. For industrial use only. Do not mix with anything but water. Avoid strong oxidizing agents, acids, aluminum and other soft metals.
Technical measures/Storage conditions

Store at room temperature Keep from freezing Keep container tightly closed Use with adequate ventilation

### 8. EXPOSURE CONTROLS/PERSOMAL 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>Sodium hydroxide</td>
<td></td>
<td>TWA: 2 mg/m³</td>
<td>IDLH: 10 mg/m³</td>
</tr>
<tr>
<td>1310-73-2</td>
<td></td>
<td></td>
<td>Ceiling: 2 mg/m³</td>
</tr>
<tr>
<td>Sodium metasilicate</td>
<td></td>
<td>2 mg/m³</td>
<td></td>
</tr>
<tr>
<td>6834-92-0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trichloro-S-triazinetrione</td>
<td></td>
<td></td>
<td>NE</td>
</tr>
<tr>
<td>87-90-1</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

Practice good personal hygiene. Wash after handling

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

**Physical state**

powder

**Appearance**

Free flowing powder

**Color**

No information available

**Odor**

Characteristic

**Odor Threshold**

No information available

**Property**

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>13.0</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>
<tr>
<td>Freezing Point</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>upper flammability limit</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>lower flammability limit</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Explosion Limits</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>
Hazardous Polymerization

Hazardous polymerization does not occur

No information available

Molecular Weight

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied 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 hydroxide</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium metasilicate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trichloro-S-triazinetrione</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Chronic toxicity

Target Organ Effects

None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated
### Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to microorganisms | Toxicity to daphnia and other aquatic invertebrates
---|---|---|---|---
Sodium hydroxide | 45.4: 96 h Oncorhynchus mykiss mg/L LC50 static | | | |
Sodium metasilicate | 210: 96 h Brachydanio rerio mg/L LC50 210: 96 h Brachydanio rerio mg/L LC50 semi-static | | | 216: 96 h Daphnia magna mg/L EC50 |
Trichloro-S-triazinetrione | 0.06 - 0.11: 96 h Oncorhynchus mykiss mg/L LC50 static 0.13 - 0.5: 96 h Lepomis macrochirus mg/L LC50 static | | | 0.16 - 0.18: 48 h Daphnia magna mg/L EC50 Static 0.21: 48 h Daphnia magna mg/L EC50 |

### 13. DISPOSAL CONSIDERATIONS

#### Waste Disposal Methods
This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

#### Contaminated packaging
Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

#### Note
UN1759, Corrosive Solid, n.o.s. (contains sodium hydroxide), 8, PG II

#### Dot
- **Proper shipping name**: Regulated
- **Hazard class**: 8
- **UN/ID No**: UN1759
- **Packing Group**: II

#### 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

International Inventories

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>United States Toxic Substances Control Act Section 8(b) Inventory</td>
</tr>
<tr>
<td>DSL</td>
<td>Canadian Domestic Substances List/Non-Domestic Substances List</td>
</tr>
<tr>
<td>NDSL</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS</td>
<td>Complies</td>
</tr>
<tr>
<td>ELINCS</td>
<td>Complies</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>

U.S. Federal Regulations

SARA 313
This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372:
SODIUM HYDROXIDE 1310-73-2

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td>no</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).

<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>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>1000 lb</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</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>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>1000 lb</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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  13-Oct-2011
Revision Date  28-Nov-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