Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name
Swisher Meta Safe

Product code
42082

Recommended Use
Dishmachine 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
Causes eye and some skin irritation.
Harmful if swallowed.
Harmful if inhalation exposure limits are exceeded.

Appearance
White powder

Physical state
powder.

Odor
No information available

Potential Health Effects

Acute toxicity

Eyes
Over exposure may cause severe irritation.

Skin
Over exposure may cause severe irritation.

Inhalation
Irritating to mucous membranes

Ingestion
Irritation of mucous membranes

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 material is not 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 dichloroisocyanurate dihydrate</td>
<td>51580-86-0</td>
<td>0</td>
</tr>
<tr>
<td>Sodium metasilicate</td>
<td>6834-92-0</td>
<td>10-20</td>
</tr>
</tbody>
</table>

Page 1 / 6
4. FIRST AID MEASURES

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

Skin contact
Flush with water. Remove contaminated clothing and do not re-wear until washed. If burns develop see a physician.

Inhalation
If difficulty in breathing occurs, leave area immediately and do not return until dust has settled. If irritation persists see a physician.

Ingestion
Drink large amounts of water or milk. DO NOT INDUCE VOMITING. See a physician immediately.

Notes to physician
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties
Not flammable

Flash point
N/A

Suitable Extinguishing Media
Dry chemical, water mist, alcohol foam

Hazardous Combustion Products
Carbon oxides

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.

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
Sweep up and collect spilled material taking care not to raise dust.

7. HANDLING AND STORAGE

Advice on safe handling
KEEP OUT OF REACH OF CHILDREN Wash hands before eating. Keep container tightly closed when not in use

Technical measures/Storage conditions
Store in cool dry place.

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>Sodium metasilicate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6834-92-0</td>
<td></td>
<td>2mg/m³</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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>powder</td>
<td>Odor</td>
<td>No information available</td>
</tr>
<tr>
<td>Appearance</td>
<td>White powder</td>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>Color</td>
<td>white</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>11-12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freezing Point</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>upper flammability limit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>lower flammability limit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosion Limits</td>
<td>upper</td>
<td></td>
<td></td>
</tr>
<tr>
<td>lower</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Partition coefficient: n-octanol/water | No information available
---|---
Autoignition temperature | No information available
Decomposition temperature | No information available
Viscosity, kinematic | No information available
Viscosity, dynamic | No information available
Explosive properties | No information available
Oxidizing Properties | No information available

9.2 Other information
Softening point | No information available
Molecular Weight | No information available
VOC Content(%) | No information available
Density VALUE | No information available
Bulk Density VALUE | No information available

10. STABILITY AND REACTIVITY
Stability | Stable
Incompatible products | Strong acids
Conditions to Avoid | Moisture Elevated Temperatures
Hazardous Decomposition Products | Oxides of Carbon
Hazardous Polymerization | Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION
Acute toxicity
Product Information | Dust is irritating to eyes and mucous membranes

<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 metasilicate</td>
<td>600 mg/kg ( Rat )</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

<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 metasilicate</td>
<td></td>
<td>210: 96 h Brachydanio rerio mg/L LC50 210: 96 h Brachydanio rerio mg/L LC50 semi-static</td>
<td>216: 96 h Daphnia magna mg/L EC50</td>
<td></td>
</tr>
</tbody>
</table>

13. DISPOSAL CONSIDERATIONS
Waste Disposal Methods  Flush diluted material to sewer.
Contaminated packaging  Do not re-use empty containers

14. TRANSPORT INFORMATION

| Note | Cleaning Compound, Not Regulated |
| Dot | Not regulated |
| Proper shipping name | Cleaning Compound, Not Regulated |
| 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
- TSCA TSCA
- DSL -
- NDSL Complies
- EINECS -
- ELINCS -
- ENCS Complies
- IECS Complies
- KECL -
- PICCS Complies
- AICS Complies

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
IECSS - 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

- Acute Health Hazard: no
- Chronic Health Hazard: no
- Fire Hazard: no
- Sudden Release of Pressure Hazard: no
- Reactive Hazard: no

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: 12-Oct-2011
Revision Date: 12-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