1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Swisher Liquid Metal Safe

Product code: 42118-1
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
Harmful if swallowed
Harmful if inhalation exposure limits are exceeded
Causes eye and skin irritation

Potential Health Effects

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Physical state</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes</td>
<td>Irritation or burns</td>
<td>Bland Scent</td>
</tr>
<tr>
<td>Skin</td>
<td>Causes irritation and burning</td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td>Causes irritation</td>
<td></td>
</tr>
<tr>
<td>Ingestion</td>
<td>Causes irritation</td>
<td></td>
</tr>
</tbody>
</table>

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 metasilicate</td>
<td>6834-92-0</td>
<td>0</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.

Inhalation
Move to fresh air

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 Carbon dioxide (CO₂)

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

NFPA
Health Hazard 0
Flammability 0
Stability 0

HMIS
Health Hazard 2
Flammability 0
Physical Hazard 0

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
Stop leak, dilute material spilled with dilute acetic acid (vinegar) to a pH of less than 10

7. HANDLING AND STORAGE

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

Technical measures/Storage conditions
Store in cool dry place. Avoid all contact. Store upright in original closed container

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**  
Safely 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 enviroment.  
**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>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>clear</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>11.0</td>
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</tr>
<tr>
<td>Melting/freezing point</td>
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<td></td>
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</tr>
<tr>
<td>Freezing Point</td>
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</tr>
<tr>
<td>Boiling point/boiling range</td>
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<td>Flash Point</td>
<td></td>
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</tr>
<tr>
<td>Evaporation rate</td>
<td></td>
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</tr>
<tr>
<td>Flammability (solid, gas)</td>
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</tr>
<tr>
<td>Flammability Limits in Air</td>
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<td></td>
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</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></td>
<td></td>
<td></td>
</tr>
<tr>
<td>upper</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>lower</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Vapor density</td>
<td></td>
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</tr>
<tr>
<td>Specific Gravity</td>
<td>1.065</td>
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<tr>
<td>Water solubility</td>
<td>N/A</td>
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</tr>
<tr>
<td>Solubility in other solvents</td>
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<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
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<td></td>
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</tr>
<tr>
<td>Autoignition temperature</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Decomposition temperature</td>
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<td></td>
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</tbody>
</table>
42118-1 - Swisher Liquid Metal Safe

Viscosity, kinematic
Viscosity, dynamic
Explosive properties
Oxidizing Properties

9.2 Other information
Softening point
Molecular Weight
VOC Content(%)
Density VALUE
Bulk Density VALUE

10. STABILITY AND REACTIVITY
Stability
Incompatible products
Conditions to Avoid
Hazardous Decomposition Products
Hazardous Polymerization

11. TOXICOLOGICAL INFORMATION
Acute toxicity
Product Information
Chronic toxicity
Target Organ Effects

12. ECOLOGICAL INFORMATION
Ecotoxicity
The environmental impact of this product has not been fully investigated

13. DISPOSAL CONSIDERATIONS
Waste Disposal Methods
Contaminated packaging

Page 4 / 6
### 14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Note</th>
<th>Cleaning Compound, Not Regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dot</td>
<td>Not regulated</td>
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<tr>
<td>Proper shipping name</td>
<td>Cleaning Compound, Not Regulated</td>
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<tr>
<td>TDG</td>
<td>Not regulated</td>
</tr>
<tr>
<td>MEX</td>
<td>Not regulated</td>
</tr>
<tr>
<td>ICAO</td>
<td>Not regulated</td>
</tr>
<tr>
<td>ICAO/IATA</td>
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</tr>
<tr>
<td>IMDG / IMO</td>
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</tr>
<tr>
<td>RID</td>
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</tr>
<tr>
<td>ADR/RID</td>
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</tr>
<tr>
<td>ADN</td>
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</tr>
</tbody>
</table>

### 15. REGULATORY INFORMATION

#### International Inventories

<table>
<thead>
<tr>
<th>TSCA</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSL</td>
<td>Complies</td>
</tr>
<tr>
<td>NDSL</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS</td>
<td>Complies</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>Acute Health Hazard</th>
<th>no</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic Health 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
10-Oct-2011
Revision Date
10-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