1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Swisher So Sour
Product code: 40074-5
Reference number(s): 40074-15/ 40074-55
UN/ID No: UN3264
Recommended Use: Iron and Mineral Removing Sour

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:
This product contains substances which at their given concentration, are considered to be hazardous to health.

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Clear Thin Liquid</th>
<th>Physical state</th>
<th>liquid.</th>
<th>Odor</th>
<th>No information available</th>
</tr>
</thead>
</table>

Potential Health Effects

Acute toxicity

- Eyes: Severe Burns.
- Skin: Severe burns.
- Inhalation: Causes burns
- Ingestion: Severe burns.

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>
</table>

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4. FIRST AID MEASURES

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

Skin contact
Wash with soap & water. See physician if irritation persists.

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

Ingestion
Give milk or water to dilute material; DO NOT induce vomiting. Avoid alcohol. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY; NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

Notes to physician
Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties
Not flammable

Flash point
Not determined.

Suitable Extinguishing Media
Use water spray or fog, foam, dry chemical, carbon dioxide, alcohol foam, if product is involved.

Hazardous Combustion Products
Hydrogen Chloride: Hydrogen gas in contact with some metals; Formic Acid.

Explosion Data

Sensitivity to Mechanical Impact
none

Sensitivity to Static Discharge
none

Specific hazards arising from the chemical
May generate hydrogen gas in contact with some metals. Use water spray to cool adjacent fire exposed containers. Product will not burn but may splatter if temperature exceeds boiling point.

Protective Equipment and Precautions for Firefighters
Avoid exposure to fumes or vapors. Wear self-contained positive pressurized breathing apparatus MSHA/NIOSH approved or equivalent to maintain TLV.

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

HMIS
Health Hazard 3  Flammability 0  Physical Hazard 1  Personal protection C

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
Neutralize with sodium bicarbonate

Methods for cleaning up
Mop up & flush to sewer with plenty of water. Floors may be slippery. Use care to avoid falls.

7. HANDLING AND STORAGE
Advice on safe handling

KEEP OUT OF REACH OF CHILDREN DANGER Do not contaminate water, food, or feed. Do not get in eyes, on skin or on clothing. Remove and wash contaminated clothing before re-use.

Technical measures/Storage conditions

Store upright in original container. Avoid all contact.

### 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>Ammonium bifluoride</td>
<td>TWA: 2.5 mg/m³ F</td>
<td>TWA: 2.5 mg/m³ F</td>
<td>TWA: 2.5 mg/m³ F</td>
</tr>
<tr>
<td>1341-49-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fluorosilic acid</td>
<td>TWA: 2.5 mg/m³ F</td>
<td>TWA: 2.5 mg/m³ F</td>
<td>TWA: 2.5 mg/m³ F</td>
</tr>
<tr>
<td>16961-83-4</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 environments.

**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>
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<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear Thin Liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>red</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Property</td>
<td>Values</td>
<td>Remarks</td>
<td>Methods</td>
</tr>
<tr>
<td>pH</td>
<td>2.0</td>
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<td></td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Freezing Point</td>
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<tr>
<td>Boiling point/boiling range</td>
<td>212 °F</td>
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<td>Flash Point</td>
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<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>GT 1.00</td>
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<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>
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<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>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Stability
- Stable

Incompatible products
- Strong oxidizing agents

Conditions to Avoid
- None known based on information supplied

Hazardous Decomposition Products
- Hydrogen Chloride: Hydrogen gas in contact with some metals; Formic Acid.

Hazardous Polymerization
- Hazardous polymerization does not occur

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 (mg/kg) (Rat)</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation (mg/L) (Rat) 1 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium bifluoride</td>
<td>130</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fluorosilicic acid</td>
<td>125</td>
<td></td>
<td>1.11</td>
</tr>
</tbody>
</table>

Chronic toxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium bifluoride</td>
<td></td>
<td>Group 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fluorosilicic acid</td>
<td></td>
<td>Group 3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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>Fluorosilicic acid</td>
<td>28.7: 96 h Pimephales promelas mg/L LC50 static</td>
<td>28.7: 96 h Poecilia reticulata mg/L LC50 static</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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
UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (contains fluorosilicic acid), 8, PG II

Dot
Regulated

Hazard class
8

UN/ID No
UN3264

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
TSCA
TSCA

DSL
Complies

NDSL
Complies
Sudden Release of Pressure Hazard

no

IECSC - Japan Existing and New Chemical Substances

Complies

KECL - Korean Existing and Evaluated Chemical Substances

Complies

PICCS - Philippines Inventory of Chemicals and Chemical Substances

Complies

AICS - Australian Inventory of Chemical Substances

Complies

U.S. Federal Regulations

SARA 313

SARA TITLE III (EPCRA) NOTIFICATION: Does not contain chemicals subject to the reporting requirements of Section 302, 304, or 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA) NOTIFICATION: AMMONIUM HYDROGEN FLUORIDE

For more information, consult 40 CFR parts 302, 355, 370, 372, and 40 CFR part 68.

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).

<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>Ammonium bifluoride</td>
<td>100 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>Ammonium bifluoride</td>
<td>100 lb</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

RQ 100 lb final RQ RQ 45.4 kg final RQ

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
17-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