



Material Safety Data Sheet

Issuing date 17-Oct-2011

Revision Date 28-Nov-2011

Version 1

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.

Appearance Clear Thin Liquid **Physical state** liquid. **Odor** No information available

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).

| Chemical Name | CAS-No | Weight % |
|---------------|--------|----------|
|---------------|--------|----------|

| | | |
|---------------------|------------|------|
| Ammonium bifluoride | 1341-49-7 | < 5 |
| Fluorosilicic acid | 16961-83-4 | < 25 |

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.

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|----------------------------------|------------------------------|------------------------------|------------------------------|
| Ammonium bifluoride 1341-49-7 | TWA: 2.5 mg/m ³ F | TWA: 2.5 mg/m ³ F | TWA: 2.5 mg/m ³ F |
| Fluorosilicic acid 16961-83-4 | TWA: 2.5 mg/m ³ F | TWA: 2.5 mg/m ³ F | TWA: 2.5 mg/m ³ F |

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 | liquid | Odor | No information available |
| Appearance | Clear Thin Liquid | Odor Threshold | No information available |
| Color | red | | |

| Property | Values | Remarks | Methods |
|------------------------------------|---------|--------------------------|---------|
| pH | 2.0 | No information available | |
| Melting/freezing point | | No information available | |
| Freezing Point | | No information available | |
| Boiling point/boiling range | 212 °F | No information available | |
| Flash Point | | No information available | |
| Evaporation rate | GT 1.00 | No information available | |
| Flammability (solid, gas) | | No information available | |
| Flammability Limits in Air | | No information available | |
| upper flammability limit | | | |
| lower flammability limit | | | |

Explosion Limits

| | | |
|--|--------------------------|--------------------------|
| upper | | |
| lower | | |
| Vapor pressure | 17 | No information available |
| Vapor density | 0.62 | No information available |
| Specific Gravity | 1.10 | No information available |
| Water solubility | completely soluble | No information available |
| Solubility in other solvents | | No information available |
| 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 | | |
| 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 | 9.2 |
| Bulk Density VALUE | No information available |

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.

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---------------------|-------------------|-------------|-----------------------|
| Ammonium bifluoride | 130 mg/kg (Rat) | | |
| Fluorosilicic acid | 125 mg/kg (Rat) | | 1.11 mg/L (Rat) 1 h |

Chronic toxicity

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---------------------|-------|---------|-----|------|
| Ammonium bifluoride | | Group 3 | | |
| Fluorosilicic acid | | Group 3 | | |

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 |
|--------------------|-------------------|--|----------------------------|---|
| Fluorosilicic acid | | 28.7: 96 h Pimephales promelas mg/L LC50 static 65: 96 h Poecilia reticulata mg/L LC50 static | | |

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

| Chemical Name | California Hazardous Waste Status |
|--------------------|-----------------------------------|
| Fluorosilicic acid | Toxic Corrosive |

14. TRANSPORT INFORMATION

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

Dot Regulated
Proper shipping name UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (contains fluorosilicic acid), 8, PG II
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

| | |
|---------------|----------|
| EINECS | Complies |
| ELINCS | - |
| ENCS | Complies |
| IECSC | Complies |
| KECL | Complies |
| 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

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

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).

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Ammonium bifluoride | 100 lb | | | X |

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.

| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ |
|---------------------|--------------------------|------------------------------------|--|
| Ammonium bifluoride | 100 lb | | 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.

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| 16. OTHER INFORMATION |
|------------------------------|

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|----------------------|---|
| 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