SWISHER

Material Safety Data Sheet

Issuing date 10-Oct-2011 Revision Date 10-Oct-2011 Version 1

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

Appearance Clear Liquid Physical state liquid. Odor Bland Scent

Potential Health Effects

Acute toxicity

Eyes Irritation or burns

Skin Causes irritation and burning

InhalationCauses irritationIngestionCauses 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 material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name	CAS-No	Weight %
Sodium metasilicate	6834-92-0	0

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 (CO_)

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 Physical and chemical

hazards -

HMIS Health Hazard 2 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 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.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium metasilicate		2mg/m ³	
6834-92-0		_	

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 protectionImpervious rubber, alkali-proof protective gloves Impervious rubber boots & apron. **Respiratory protection**If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

Respiratory protectionIf 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

Appearance Clear Liquid Odor Bland Scent

Color Clear Odor Threshold No information available

PropertyValuesRemarksMethodspH11.0No information availableMelting/freezing pointNo information availableFreezing PointNo information availableBoiling point/boiling rangeNo information availableFlash PointNo information available

Flash PointNo information availableEvaporation rateNo information availableFlammability (solid, gas)No information availableFlammability Limits in AirNo information available

upper flammability limit lower flammability limit

Explosion Limits

upper lower

Vapor pressureNo information availableVapor densityNo information availableSpecific Gravity1.065No information available

Water solubility

Solubility in other solvents

Partition coefficient: n-octanol/water

No information available
No information available
No information available

Autoignition temperature

No information available

Decomposition temperature

No information available

No information available

Viscosity, kinematic

Viscosity, dynamic Explosive properties

Oxidizing Properties

No information available No information available

9.2 Other information

Softening pointNo information availableMolecular WeightNo information availableVOC Content(%)No information availableDensity VALUENo information availableBulk Density VALUENo information available

10. STABILITY AND REACTIVITY

Stability Stable

Incompatible products Strong acids and oxidizing agents

Conditions to Avoid Elevated Temperatures

Hazardous Decomposition Products Carbon oxides

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
Γ	Sodium metasilicate	600 mg/kg (Rat)		

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 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

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Neutralized, diluted material may be flushed 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
DSL
Complies
NDSL
Complies
EINECS
ELINCS
ENCS
Complies
Complies
Complies

ENCSCompliesIECSCCompliesKECLCompliesPICCSCompliesAICSComplies

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

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 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