

# SAFETY DATA SHEET

Issuing date 10-Oct-2011 Revision Date 13-Nov-2014 Version 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name Swisher Liquid Metal Safe

Other means of identification

Product Code 42118-1

**Document** 42118-5/ 42118-55

Recommended use of the chemical and restrictions on use

Recommended use Metal Safe Dish Machine Detergent

### Details of the supplier of the safety data sheet

**Distributor** 

Swisher Hygiene Inc. 4725 Piedmont Row Drive Suite 400 Charlotte, NC 28210

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC: 1-800-424-9300 (NORTH AMERICA)

1-703-527-3887 (INTERNATIONAL)

Company Phone Number 800-444-4138

### 2. HAZARDS IDENTIFICATION

#### Classification

### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute Toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1

#### Label elements

#### **Emergency Overview**

#### Danger

#### **Hazard Statements**

Harmful if swallowed

Causes severe skin burns and eye damage



Appearance Transparent

Physical state Liquid

Odor Bland Scent

### **Precautionary Statements - Prevention**

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not breathe dust/fume/gas/mist/vapors/spray
- Wear protective gloves/protective clothing/eye protection/face protection

### **Precautionary Statements - Response**

- Immediately call a POISON CENTER or doctor/physician
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- · Wash contaminated clothing before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

#### **Precautionary Statements - Storage**

Store locked up

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

#### Other information

- · Toxic to aquatic life with long lasting effects
- · Toxic to aquatic life

Unknown Acute Toxicity

2% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name	CAS-No	Weight-%	Trade Secret
Potassium hydroxide	1310-58-3	8% = 16%	*
Pentasodium triphosphate	7758-29-4	3% - 8%	*
Sodium hypochlorite	7681-52-9	1% - 5%	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

### First aid measures for different exposure routes

General advice Show this safety data sheet to the doctor in attendance. Immediately call a POISON

CENTER or doctor/physician.

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

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes. Remove and wash

contaminated clothing before re-use. Consult a physician.

**Inhalation** Move to fresh air. Call a physician or Poison Control Center immediately.

**Ingestion** Do not induce vomiting unless directed by a physician. If conscious and alert, give two

glasses of water. Seek medical attention immediately. Rinse mouth.

**Protection of First-aiders**Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce

artificial respiration with the aid of a pocket mask equipped with a one-way valve or other

proper respiratory medical device.

Most important symptoms/effects, acute and delayed

Main Symptoms The most important known symptoms and effects are described in the labelling in section 2

and/or in section 11.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Dry chemical, water mist, alcohol foam. Carbon dioxide (CO<sub>2</sub>).

Unsuitable Extinguishing Media CAUTION: Use of water spray when fighting fire may be inefficient.

### Specific hazards arising from the chemical

No information available.

**Hazardous Combustion** 

Carbon oxides.

**Products** 

**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, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal

protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash face, hands and any exposed skin thoroughly after

handling.

Other information Common Weak Acids suitable for neutralizing caustic alkalis: acetic acid, citric acid, lemon

juice, tartaric acid, vinegar.

### **Environmental precautions**

**Environmental precautions**See Section 12 for additional Ecological Information.

#### Methods and materials for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Neutralise with a weak acid. Soak up with inert absorbent material. Sweep up and shovel

into suitable containers for disposal.

#### 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or

using toilet facilities. Wash thoroughly after work using soap and water. Do not eat, drink or

smoke when using this product.

#### Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep container in cool well-ventilated area. Keep container tightly closed. Store away from

incompatible materials. Keep out of the reach of children.

**Incompatible products** Strong acids and oxidizing agents.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** Review Section 3 & 4 for Exposure Guidelines.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide	2 mg/m³	2 mg/m³	Ceiling: 2 mg/m <sup>3</sup>
1310-58-3			
Pentasodium triphosphate 7758-29-4	-	15mg/m <sup>3</sup>	-

NIOSH IDLH: Immediately Dangerous to Life or Health

### Appropriate engineering controls

Engineering Measures Ensure adequate ventilation and that running water is available for washing eyes and skin Individual protection measures, such as personal protective equipment

**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**Do not eat, drink or smoke when using this product. Remove and wash contaminated

clothing before re-use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Physical and chemical properties

**Bland Scent** 

Physical stateLiquidAppearanceTransparent

Color Colorless Odor Threshold No information available

Odor

<u>Property</u> <u>Values</u> <u>Remarks • Methods</u>

pH 11.0

Melting/freezing point
Boiling point/boiling range
Flash Point
Evaporation rate
Flammability (solid, gas)
No information available
No information available
No information available
No information available

Flammability Limits in Air

Upper flammability limit
Lower flammability limit
Vapor pressure
Vapor density

No information available
No information available
No information available
No information available

Specific Gravity  $1.059 \pm .005$ 

Water solubility N/A

Solubility in other solvents
Partition coefficient: n-octanol/water No information available
Autoignition temperature
Pecomposition temperature
Viscosity, kinematic
Viscosity, dynamic
Explosive properties
No information available

Other information

Softening pointNo information availableMolecular WeightNo information available

VOC Content(%) Negligible

Density VALUE No information available Bulk Density VALUE No information available

### 10. STABILITY AND REACTIVITY

#### **Chemical stability**

Stable.

#### Possibility of hazardous reactions

None under normal processing.

#### **Conditions to Avoid**

Elevated Temperatures.

#### **Incompatible Materials**

Strong acids and oxidizing agents.

### **Hazardous Decomposition Products**

Carbon oxides.

### 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Product Information Harmful if swallowed Causes severe skin burns and eye damage

**Inhalation** May be harmful if inhaled.

**Eye contact** Severely irritating to eyes.

**Skin contact** Contact causes severe skin irritation and possible burns.

**Ingestion** Harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
Potassium hydroxide 1310-58-3	= 284 mg/kg ( Rat )	-	-
Pentasodium triphosphate 7758-29-4	= 3100 mg/kg (Rat)	> 7940 mg/kg (Rabbit)	-
Sodium hypochlorite 7681-52-9	= 8200 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	-

### Information on toxicological effects

**Symptoms** No information available.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization**Mutagenic effects
No information available.
No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium hypochlorite	-	Group 3	-	-
7681-52-9		•		

IARC: (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

**Chronic toxicity** No information available. Avoid repeated exposure.

**Aspiration hazard** No information available.

### Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 2% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document ...

ATEmix (oral) 1650 mg/kg ATEmix (dermal) 39857 mg/kg

### 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

6.85% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Potassium hydroxide	-	80: 96 h Gambusia affinis mg/L	-
1310-58-3		LC50 static	
Pentasodium triphosphate	-	1650: 48 h Leuciscus idus mg/L	-
7758-29-4		LC50	
Sodium hypochlorite	0.095: 24 h Skeletonema costatum	0.18 - 0.22: 96 h Oncorhynchus	0.033 - 0.044: 48 h Daphnia magna
7681-52-9	mg/L EC50	mykiss mg/L LC50 static 0.03 - 0.19:	
		96 h Oncorhynchus mykiss mg/L	magna mg/L EC50
		LC50 semi-static 0.06 - 0.11: 96 h	
		Pimephales promelas mg/L LC50	
		flow-through 4.5 - 7.6: 96 h	
		Pimephales promelas mg/L LC50	
		static 0.4 - 0.8: 96 h Lepomis	
		macrochirus mg/L LC50 static 0.28 -	
		1: 96 h Lepomis macrochirus mg/L	
		LC50 flow-through 0.05 - 0.771: 96	
		h Oncorhynchus mykiss mg/L LC50	
		flow-through	

#### Persistence and degradability

No information available.

#### Bioaccumulation

No information available.

Chemical Name	Partition coefficient
Potassium hydroxide	0.65
1310-58-3	0.83

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

#### **Waste treatment**

Waste Disposal Methods Neutralized, diluted material may be flushed to sewer.

**Contaminated packaging** Do not reuse container.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Potassium hydroxide	Toxic Corrosive
1310-58-3	

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

Proper shipping name Cleaning Compound, Not Regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS -

EINECS/ELINCS -

ENCS - Complies

KECL Complies
PICCS Complies
AICS Complies

Legend:

TSCA - All components of this product are listed or are exempt or excluded from listing on the 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

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**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	Yes
Chronic Health Hazard	no
Fire Hazard	no
Sudden Release of Pressure Hazard	no
Reactive Hazard	Yes

#### **Clean Water Act**

This product contains the following substances which are regulated 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
Potassium hydroxide 1310-58-3	1000 lb	-	-	Х
Sodium hypochlorite 7681-52-9	100 lb	-	-	Х

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Potassium hydroxide 1310-58-3	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ
Sodium hypochlorite 7681-52-9	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

This product contains substances regulated by state right-to-know regulations.

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Potassium hydroxide 1310-58-3	X	X	Х
Pentasodium triphosphate 7758-29-4	-	-	X
Sodium hypochlorite 7681-52-9	X	X	Х

### **U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

16. OTHER INFORMATION					
NFPA_	Health Hazards 2	Flammability	0	Instability 0	Physical and chemical hazards COR
<u>HMIS</u>	Health hazard 2	Flammability	0	Physical Hazards 0	Personal protection X

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**Revision Note** 

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### **Disclaimer**

The information provided in this Material Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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