# SAFETY DATA SHEET

Issuing Date 07-Aug-2013 Revision Date 07-Aug-2013 Revision Number 0

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

**GHS** product identifier

Product Name METAL SAFE LIQUID

Other means of identification

Product Code(s) 9LMDSAF

UN-Number UN1760

Synonyms 9LMDSAF

Recommended use of the chemical and restrictions on use

Recommended Use Institutional dish machine detergent

Uses advised against No information available

Supplier's details

**Supplier Address** 

2205 OLD PHILADELPHIA PIKE LANCASTER, PA 17602 TEL: 1-888-256-6400

**Emergency telephone number** 

Emergency Telephone CHEM-TEL, INC.

**Number** 24 Hour Emergency Contact 1-800-255-3924

# 2. HAZARDS IDENTIFICATION

# Classification

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

Skin Corrosion/Irritation	Category 1 Subcategory 1A
Serious Eye Damage/Eye Irritation	Category 1

# GHS Label elements, including precautionary statements

# **Emergency Overview**

Signal Word Danger

**Hazard Statements** 

· Causes severe skin burns and eye damage



Appearance Brown, Thin liquid

Physical State Liquid.

Odor No information available

### **Precautionary Statements**

#### Prevention

- · Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection.

#### **General Advice**

- Immediately call a POISON CENTER or doctor/physician
- · Specific treatment (see supplemental instructions on the administration of antidotes on this label)

#### **Eyes**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a POISON CENTER or doctor/physician.

#### Skin

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- · Wash contaminated clothing before reuse.

#### Inhalation

• IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

#### Ingestion

• IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

#### Storage

Store locked up.

### **Disposal**

• Dispose of contents/container to an approved waste disposal plant.

### **Hazard Not Otherwise Classified (HNOC)**

Not applicable

#### Other information

No information available.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

9LMDSAF

Chemical Name	CAS-No	Weight %	Trade secret
Potassium hydroxide	1310-58-3	15-30	*

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

### 4. FIRST AID MEASURES

### **Description of necessary first-aid measures**

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Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

**Skin Contact** Wash off immediately with soap and plenty of water. Remove and wash contaminated

clothing before re-use. Immediate medical attention is required.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

**Ingestion** Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Immediate medical attention is required.

### Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects No information available.

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

Notes to Physician Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media None

#### **Specific Hazards Arising from the Chemical**

No information available

**Explosion Data** 

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None

#### **Protective Equipment and Precautions for Firefighters**

Protect from irritating mists and corrosive solutions with pressure demand, self-contained respirator and protective clothing.

# 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin,

eyes and clothing. Stop leak if you can do it without risk. If spilled, take caution, as material

can cause surfaces to become very slippery.

**Environmental Precautions** 

Environmental Precautions Dispose of contents/container to an approved waste disposal plant. See Section 12 for

additional Ecological Information

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

**Methods for Containment**Stop leak if you can do it without risk

Methods for Cleaning Up Contain spill, dilute with water and neutralize as required. Wash away small spills with

plenty of water.

# 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling**Handle in accordance with good industrial hygiene and safety practice. Avoid breathing

vapors or mists. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not eat, drink or smoke when using

this product. Do not take internally. Wash thoroughly after handling.

# Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room

temperature. Keep from freezing. Keep container closed when not in use. Keep out of the

reach of children.

Incompatible Products Acids. Soft metals. Aluminium. Do not mix with anything but water

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control parameters**

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
1310-58-3			

### **Appropriate engineering controls**

Engineering Measures Showers

Eyewash stations Ventilation systems

# Individual protection measures, such as personal protective equipment

Eye/Face ProtectionChemical splash goggles.Skin and Body ProtectionRubber gloves. Latex gloves

Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical StateLiquidAppearanceBrown, Thin liquidOdorNo information availableOdor ThresholdNo information available

Property Values Remarks/ - Method Hq 12.5 None known Melting Point/Range No data available None known **Boiling Point/Boiling Range** > 100 °C /> 212 °F None known Flash Point No data available None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limits in Air upper flammability limit No data available lower flammability limit No data available Vapor Pressure No data available None known Vapor Density No data available None known **Relative Density** No data available None known **Specific Gravity** 1.17 None known **Water Solubility** 100% None known

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Solubility in other solventsNo data availableNone knownPartition coefficient: n-octanol/water No data availableNone knownAutoignition TemperatureNo data availableNone knownDecomposition TemperatureNo data availableNone knownViscosity5 cpsNone known

Flammable Properties Not flammable

Explosive Properties No data available Oxidizing Properties No data available

Other information

VOC Content (%) No data available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available. **Chemical stability** 

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### **Conditions to avoid**

Spills or careless handling. Incompatible products.

### **Incompatible materials**

Acids. Soft metals. Aluminium. Do not mix with anything but water

### **Hazardous decomposition products**

None known based on information supplied.

# 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product Information** 

**Inhalation** May cause irritation of respiratory tract.

**Eye Contact**Causes serious eye damage.
Skin Contact
Causes severe skin burns.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium hydroxide	= 214 mg/kg (Rat)	-	-

# Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

### Delayed and immediate effects and also chronic effects from short and long term exposure

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Sensitization No information available.

Mutagenic Effects No information available.

**Carcinogenicity** Contains no ingredient listed as a carcinogen.

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration Hazard
No information available.
No information available.
No information available.

#### Numerical measures of toxicity - Product

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

**LD50 Oral** 2504 mg/kg; Acute toxicity estimate

# 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	Daphnia Magna (Water Flea)
Potassium hydroxide		LC50 96 h: = 80 mg/L static		
1310-58-3		(Gambusia affinis)		

Persistence and Degradability No information available.

**Bioaccumulation**No information available.

Chemical Name	Log Pow	
Potassium hydroxide	0.83	

#### **Other Adverse Effects**

No information available.

# 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of in accordance with federal, state, and local regulations

**Contaminated Packaging** Do not re-use empty containers.

Chemical Name	California Hazardous Waste	
Potassium hydroxide	Toxic	
, ,	Corrosive	

# 14. TRANSPORT INFORMATION

### DOT

UN1760

**Proper shipping name** Corrosive liquids, n.o.s.

Hazard Class 8
Packing Group ||

**Reportable Quantity (RQ)** Potassium hydroxide: RQ kg= 2532.35

**Description** UN1760, Corrosive liquids, n.o.s. (Potassium hydroxide), 8, II, RQ

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Number

TDG

UN1760

**Proper Shipping Name** Corrosive liquid, n.o.s.

Hazard Class 8
Packing Group | |

**Description** UN1760, Corrosive liquid, n.o.s. (Potassium hydroxide), 8, II

UN-Number UN1760

**Proper Shipping Name** Corrosive liquid, n.o.s.

Hazard Class 8
Packing Group ||

**Description** UN1760, Corrosive liquid, n.o.s. (Potassium hydroxide), 8, II

**ICAO** 

UN-Number UN1760

Proper shipping name Corrosive liquid, n.o.s.

Hazard Class 8
Packing Group ||

**Description** UN1760, Corrosive liquid, n.o.s., 8, II

IATA

UN-Number UN1760

Proper Shipping Name Corrosive liquid, n.o.s.

Hazard Class 8
Packing Group || ERG Code 8L

**Description** UN1760, Corrosive liquid, n.o.s. (Potassium hydroxide), 8, II

IMDG/IMO

UN-Number UN1760

Proper Shipping Name Corrosive liquid, n.o.s.

Hazard Class 8
Packing Group II
EmS No. F-A, S-B

**Description** UN1760, Corrosive liquid, n.o.s. (Potassium hydroxide), 8, II

UN-Number UN1760

Proper Shipping Name Corrosive liquid, n.o.s.

Hazard Class 8
Packing Group II
Classification Code C9

**Description** UN1760, Corrosive liquid, n.o.s. (Potassium hydroxide), 8, II

**ADR** 

UN-Number UN1760

Proper Shipping Name Corrosive liquid, n.o.s.

Hazard Class 8
Packing Group II
Classification Code C9
Tunnel Restriction Code (E)

**Description** UN1760, Corrosive liquid, n.o.s. (Potassium hydroxide), 8, II, (E)

ADR/RID-Labels 8

**Proper Shipping Name** Corrosive liquid, n.o.s.

Hazard Class 8
Packing Group II
Classification Code C9
Special Provisions 274

**Description** UN1760, Corrosive liquid, n.o.s. (Potassium hydroxide), 8, II

Limited Quantity 1 L

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies
DSL Complies
EINECS Complies

IECCC Complies

IECSCCompliesPICCSCompliesAICSComplies

# <u>Legend</u>

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

IECSC - China Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### **U.S. Federal Regulations**

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 HazardYesChronic Health HazardYesFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

# 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	1000 lb			Χ

#### **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	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

# **U.S. State Regulations**

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals:

# U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Potassium hydroxide	X	X	X		X
Cocamide dea				Х	

# U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION				
NFPA	Health Hazard 3	Flammability 0	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 3	Flammability 0	Physical Hazard 0	Personal Protection X

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Prepared By Product Stewardship

23 British American Blvd.

Latham, NY 12110 1-800-572-6501

Issuing Date07-Aug-2013Revision Date07-Aug-2013Revision NoteInitial Release.

# General Disclaimer

The information provided on this SDS 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 Safety Data Sheet**