# UNI-KLEEN LOW/HIGH TEMP MACHINE DETERGENT

# UNI-KEM CHEMICALS, INC

802 Wm. Leigh Drive Tullytown, PA 19007 Phone - 800-752-1120 Fax - 215-269-9855

GENERAL DESCRIPTION: UNI-KLEEN LOW/HIGH TEMP DETERGENT is specially formulated to produce clean and sparkling tableware in Low/High Temperature dishmachines. UNI-KLEEN LOW/HIGH TEMP DETERGENT attains excellent results in light to medium soil conditions where soft to medium water hardness conditions are available. UNI-KLEEN LOW/HIGH TEMP DETERGENT is dispensed directly from the shipping container, thus eliminating messy spills and unsightly dish areas. This unique product is formulated to be dispensed through an automated injector system, assuring the lowest possible use cost. UNI-KLEEN LOW/HIGH TEMP DETERGENT can be used to wash soft metals such as aluminum or pewter.

## PHYSICAL PROPERTIES:

Chemical Composition	Alkaline base; soil and mineral
sequesteri	ng agents for water conditioning;
	metal and glaze protectants.
Appearance	Clear red liquid
pH of 1% solution	11.9
Specific gravity	1.24 (10.3 lbs/gal)
Solubility	Complete and Fast
Stability	.1 Year @ Ambient Temperature
SAME AND ADDRESS OF THE PARTY O	.1 Year @ Ambient TemperaturePresent
Caustic	
Caustic Foaming	Present Low
Caustic Foaming. Biodegradable	Present
Caustic Foaming Biodegradable Metal Safety	Present Low Yes, all surfactants
Caustic Foaming Biodegradable Metal Safety	PresentLowYes, all surfactantsSafe with soft metals

### RECOMMENDED RANGE OF USE CONCENTRATIONS:

Titrate with Institutional Alkalinity Test Kit. Use range is 0.1% to 0.3%, or 2 to 6 drops (each drop = .05%) using a 10 ml sample and 3 drops of Phenolphthalein Indicator. Select actual use concentration to handle water hardness and soil load.

**NOTE**: To properly titrate, adjust for raw water alkalinity by titrating H2O just as you would a detergent solution. Subtract that number from total drop titration to derive intended detergent concentration.

**Example:** Raw water titrates 2 drops, total drop titration equals 6 drops.  $(6 - 2 = 4 \times .05\% = 0.2\%)$ 

### HANDLING PRECAUTIONS:

# CAUTION: WARNING KEEP OUT OF REACH OF CHILDREN.

Highly alkaline liquid. Contact with skin and eyes may cause severe irritation. Harmful if swallowed. Flood with water if splashed in eyes. Flush with water for 15 minutes and consult physician immediately. If ingested, drink large amounts of milk, milk of magnesia or gelatin, or if these are not available, drink large amounts of water. DO NOT induce vomiting. Obtain prompt medical attention.

# PACKAGING:

5 gal plastic pail - 52 lbs net / 55 lbs gross 4x1 gal case- 36 lbs net / 38 lbs gross

CODE: UKLHT

Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

# SAFETY DATA SHEET

Issuing Date 18-Apr-2013 Revision Date 18-Apr-2013 Revision Number 0

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

GHS product identifier

Product Name Uni-Kleen Low HighTemp Detergent

Other means of identification

Product Code(s) UKLHT

UN-Number UN1760

Synonyms UKLHT

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** Uni-Kem Chemicals, Inc. 802 Wm. Leigh Drive

Tullytown, PA 19007

TEL: 800-752-1120

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

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Appearance Clear

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

### 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

Harmful to aquatic life with long lasting effects

No information available.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Synonyms

**UKLHT** 

Chemical Name	CAS-No	Weight %	Trade secret
Sodium hydroxide	1310-73-2	10-20	*

<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

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

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. 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.

## 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. Large spillage: Soak up with inert absorbent material.

# 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.

Incompatible Products

Strong oxidizing agents. Aluminium. Soft metals.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## Control parameters

# **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup>
1310-73-2		(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>

### Appropriate engineering controls

**Engineering Measures** 

Showers

Eyewash stations Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Skin and Body Protection Chemical resistant goggles must be worn. Face-shield. Rubber boots. Apron. Rubber gloves. Neoprene 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 State** Odor

Flash Point

Evaporation rate

Liquid

No information available

Appearance **Odor Threshold**  Clear

No information available

**Property** Values

12.8 No data available > 100 °C /> 212 °F No data available No data available

(4 % solution) None known None known None known None known

None known

Remarks/ - Method

Flammability (solid, gas) Flammability Limits in Air

Melting Point/Range

upper flammability limit

Boiling Point/Boiling Range

No data available lower flammability limit Vapor Pressure

Vapor Density **Relative Density** Specific Gravity

No data available No data available No data available No data available 1.22

No data available

None known None known None known

None known

### **UKLT UNI-KLEEN LOW HIGH TEMP DETERGENT**

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Water Solubility 100% None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/waterNo data available None known **Autoignition Temperature** No data available None known **Decomposition Temperature** No data available None known Viscosity 5 cps None 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

Strong oxidizing agents. Aluminium. Soft metals.

### 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 ContactCauses serious eye damage.Skin ContactCauses severe skin burns.IngestionMay be harmful if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide	<b>2</b> 0	1350 mg/kg (Rabbit)	2
			-

# 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

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**25000 mg/kg; Acute toxicity estimate **LD50 Dermal**3034 mg/kg; Acute toxicity estimate

### 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Harmful to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Sodium hydroxide		LC50 96 h: = 45.4 mg/L static (Oncorhynchus mykiss)		

Persistence and Degradability No information available.

Bioaccumulation No information available.

Chemical Name	Log Pow

# 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
Sodium hydroxide	Toxic
5	Corrosive

# 14. TRANSPORT INFORMATION

DOT

UN-Number UN1760

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

Hazard Class 8
Packing Group II

Reportable Quantity (RQ) Sodium hydroxide: RQ kg= 1020.45, Potassium hydroxide: RQ kg= 22700.00

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

**Emergency Response Guide** 

Number

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TDG

UN-Number UN1760

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

Hazard Class 8
Packing Group ||

Description UN1760, Corrosive liquid, n.o.s. (Sodium hydroxide, 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. (Sodium hydroxide, 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 II
ERG Code 8L

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

**RID** 

UN-Number UN1760

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

Hazard Class 8
Packing Group || Classification Code C9

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

<u>ADR</u>

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. (Sodium hydroxide, Potassium hydroxide), 8, II, (E)

ADR/RID-Labels 8

<u>ADN</u>

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

Hazard Class 8
Packing Group || Classification Code C9

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

Limited Quantity 1 L

# 15. REGULATORY INFORMATION

### International Inventories

TSCA Complies
DSL Complies
NDSL Complies
KECL Complies
PICCS Complies

### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and 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 Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

### 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):

Quantities	CWA - Priority Pollutants	Substances
1000 lb		X

### **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
Sodium hydroxide	1000 lb		RQ 1000 lb final RQ RQ 454 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

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
odium hydroxide	X	X	X		Х
		-			

# U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION							
NFPA	Health Hazard 3	Flammability 0	Instability 1	Physical and Chemical Hazards -			
<u>HMIS</u>	Health Hazard 3	Flammability 0	Physical Hazard 1	Personal Protection X			

Issuing Date18-Apr-2013Revision Date18-Apr-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** 

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