# UNI-KEM CHEMICALS, INC.

# CYCLE 10

802 WM. LEIGH DR. TULLYTOWN, PA 19007 Phone—800-752-1120 Fax—215-269-9855

GENERAL DESCRIPTION: CYCLE 10 is a concentrated, highly alkaline laundry detergent containing a specific blend of soil emulsifying agents. CYCLE 10 is formulated with advanced optical brighteners which provide superior results on all washable fabrics and is safe for synthetic and natural fibers. CYCLE 10 removes stubborn soil and keeps it in suspension, preventing redeposition on fabric. CYCLE 10 rinses quickly and completely, and is effective in all water hardness conditions and temperatures. CYCLE 10 is biodegradable.

#### PHYSICAL PROPERTIES:

Chemical Composition	Soil suspending & rinsing
	agents; mineral sequestering agents
	for hard water conditioning;
	neutrally charged surfactants for
	effective hard water washing.
	Clear amber liquid
Ph	
	12.4
Specific gravity	
Penetration	Immediate
Stability	3 months @ Ambient Temperature
	Excellent
	Yes
	Complete
Odan	Pleasant

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.



#### **DIRECTIONS FOR USE:**

CYCLE 10 Liquid Laundry Detergent is specially formulated to be used with automated injector systems. CYCLE 10 can be dispensed directly from the shipping container, thereby eliminating hand feeding from powder hoppers and possible spillage. For normal soils, use 8 to 12 ounces per hundred pounds of

work. **CYCLE 10** is completely soluble in all normal water temperatures. For optimum soil release, use in hot (140oF to 160oF) water for removing normal soils. Effective soil removal, at the concentrations and temperatures given, may be obtained during a normal 6 to 10 minute wash cycle. If extreme soil conditions exist, a longer or repeat cycle may be necessary.

#### HANDLING PRECAUTIONS:

## CAUTION: WARNING KEEP OUT OF REACH OF CHILDREN.

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 - 57 lbs net / 59 lbs gross 15 gal plastic drum - 170 lbs net / 177lbs gross

CODE: C10CY

# **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** 

CYCLE 10

Other means of identification

Product Code(s)

CYCLE 10

**UN-Number** 

UN1760

**Synonyms** 

CYCLE 10

#### 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 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

Cycle 10

Chemical Name	CAS-No	Weight %	Trade secret
Potassium hydroxide	1310-58-3	5-10	*

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

## 4. FIRST AID MEASURES

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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 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

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#### 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

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

temperature. Keep from freezing. Keep container closed when not in use.

Strong oxidizing agents. Aluminium. Soft metals. Incompatible Products

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Control parameters

#### **Exposure Guidelines**

Chemical Na	me	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydr 1310-58-3		Ceiling: 2 mg/m <sup>3</sup>	(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

Chemical resistant goggles must be worn. Face-shield. **Eye/Face Protection** Skin and Body Protection 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

**Appearance** Liquid **Physical State** Liquid

**Odor Threshold** No information available No information available Odor

Remarks/ - Method Property Values (4 % solution) 12.8 None known Melting Point/Range No data available **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 None known **Vapor Density** No data available **Relative Density** None known No data available None known **Specific Gravity** 1.22 Water Solubility 100% None known Solubility in other solvents No data available None known

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Partition coefficient: n-octanol/waterNo data available
Autoignition Temperature

No data available

Decomposition Temperature

No data available

None known None known None known None known

Flammable Properties

Viscosity

Not flammable

5 cps

Explosive Properties Oxidizing Properties

No data available 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	
Potassium hydroxide	= 214 mg/kg (Rat)	<del>7</del> 1	-	

#### 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.

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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)
Potassium hydroxide		LC50 96 h: = 80 mg/L static	-	
150		(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
.0	Corrosive

## 14. TRANSPORT INFORMATION

DOT

UN-Number UN1760

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

Hazard Class 8
Packing Group ||

Reportable Quantity (RQ) Potassium hydroxide: RQ kg= 22700.00

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

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le 154

Number

TDG

UN-Number UN1760

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

Hazard Class
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 8|

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

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. ( Potassium hydroxide), 8, II

ADR

UN-Number UN1760

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

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

**Description** UN1760, Corrosive liquid, n.o.s. ( 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 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
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):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium hydroxide	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
Potassium 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
Potassium hydroxide	X	Х	X		X

#### 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

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**Revision Note** 

Initial 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**