# Uni-San

## UNI-KEM CHEMICALS, INC.

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

GENERAL DESCRIPTION: UNI-SAN is a sodium hypochlorite based sanitizer providing sanitation in dishmachines used in commercial and institutional foodservice operations. UNI-SAN is a buffered (high level of free alkali) product which enhances its stability when compared to other chlorine products. Chlorine content aids in stain removal on plastic and china tableware. The chlorine content also provides soil removal in wash cycle. UNI-SAN is safe for use on stainless steel, glass, china, porcelain and plastic. Not recommended for use on sterling silver, silver plate or other corrodible soft metals.

#### PHYSICAL PROPERTIES:

Chemical CompositionBuffered sodium l	hypochlorite
Appearance	ellow liquid
pH	12.4
pH of 1% solution	9.4
Specific gravity1.104 (9	.16 lbs/gal)
Caustic	Present
Solubility Comple	ete and Fast
Available Chlorine 6% (600 ppm in 19	% solution)
Stability 180 days @ Ambient T	emperature
Metal Safety Not safe for use on corrodible	soft metals

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.

CODE: USA

## PACKAGING:

4/1 gal plastic bottles - 37 lbs net / 40 lbs gross 5 gallon plastic pails - 46 lbs net/49 lbs gross



#### DIRECTIONS FOR USE:

Low Temperature Dishmachine Sanitizer to be automatically injected during beginning of "final rinse" portion of machine operating cycle. Use approximately 4 to 7 cc's per gallon of water to achieve a level of approximately 50 to 100 ppm available chlorine as measured with Chlorine Test Kit. Consult local sanitation regulations for specific requirements.

## Manual Sanitizing Rinse for Glasses, Dishes and Utensils

- 1. Scrape and pre-flush articles to be washed.
- 2. Wash with recommended Uni-Kem products.
- 3. Rinse with potable water.
- 4. Sanitize by immersion in UNI-SAN solution using approximately 1 ounce to each 4 gallons of water (100 ppm available chlorine). Immerse all utensils for at least two minutes or for contact time specified by governing sanitation regulations. Test periodically with Chlorine Test Kit. When solution depreciates to 50 ppm available chlorine, discard.
- 5. Air dry on clean drainboard.

#### Special Applications for Low Temp Sanitizer

Deodorizing non-food contact surfaces—use 2 ounces UNI
-SAN in one gallon of water (approximately 600 ppm
available chlorine). Spray or rinse odor problem area. If
applied to food contact surfaces, rinse with potable water
after application.

For assistance and recommendations for sanitizing other equipment, consult your Uni-Kem Representative.

#### HANDLING PRECAUTIONS:

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

Contains chlorine. 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.

## 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 UNI-SAN

Other means of identification

Product Code(s) USA

UN-Number UN1791

Synonyms USA

#### Recommended use of the chemical and restrictions on use

Recommended Use Institutional laundry detergent

Uses advised against No information available

## Supplier's details

Supplier Address Uni-Kem Chemicals, Inc. 802 Wm. Leigh Dr 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 1B
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 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

Very toxic to aquatic life with long lasting effects

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

## **Synonyms**

USA

Chemical Name	CAS-No	Weight %	Trade secret
Sodium hypochlorite	7681-52-9	5-15	*

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

## 4. FIRST AID MEASURES

**USA UNISAN** Revision Date 07-Aug-2013

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,

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

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.

## 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

Storage Storage Store at room temperature. Keep container closed when not in use. Keep out of the reach

of children.

Incompatible Products Heavy metals. Reducing agents. Acids. Do not mix with anything but water

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Control parameters

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

#### Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems

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

Eye/Face Protection

on Chem

Skin and Body Protection Respiratory Protection

Chemical splash goggles. Rubber gloves. Neoprene gloves.

Particle filtering face piece

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

None known

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical State Liquid Appearance Clear

Odor No information available Odor Threshold No information available

Property Values Remarks/ - Method pН 10.0 (4 % solution) 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

No data available

Flammability (solid, gas) Flammability Limits in Air

upper flammability limitNo data availablelower flammability limitNo 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** 1.09 None known **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 USA UNISAN

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Viscosity No data available 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

Incompatible products. Protect from light. Heat.

#### Incompatible materials

Heavy metals. Reducing agents. Acids. Do not mix with anything but water

## Hazardous decomposition products

Chlorine gas acids and salts.

## 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	
Water	90 mL/kg (Rat)	-		
Sodium hypochlorite	= 8200 mg/kg (Rat)	> 10000 mg/kg ( Rabbit )	<b>=</b> 3	

#### 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

SensitizationNo information available.Mutagenic EffectsNo 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

IARC: (International Agency for Research on Cancer)
Group 3: Not Classifiable as to its Carcinogenicity to Humans
Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration Hazard
No information available.
No information available.
No information available.

## Numerical measures of toxicity - Product

**Acute Toxicity** 

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

LD50 Oral 6061 mg/kg; Acute toxicity estimate

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Sodium hypochlorite	EC50 24 h: = 0.095 mg/L	LC50 96 h: 0.03 - 0.19 mg/L		EC50 48 h: 0.033 - 0.044
7681-52-9	(Skeletonema costatum)	semi-static (Oncorhynchus		mg/L Static (Daphnia
	1	mykiss)		magna)
	1	LC50 96 h: 0.05 - 0.771		EC50 96 h: = 2.1 mg/L
		mg/L flow-through		(Daphnia magna)
		(Oncorhynchus mykiss)		
		LC50 96 h: 0.06 - 0.11 mg/L		
	1	flow-through (Pimephales		
		promelas)		
		LC50 96 h: 0.18 - 0.22 mg/L		
		static (Oncorhynchus		
		mykiss)		
		LC50 96 h: 0.28 - 1 mg/L		
		flow-through (Lepomis		
		macrochirus)		
		LC50 96 h: 0.4 - 0.8 mg/L		
		static (Lepomis macrochirus)		
		LC50 96 h: 4.5 - 7.6 mg/L		
		static (Pimephales promelas)		

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

#### **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 hypochlorite	Toxic Ignitable Reactive

## 14. TRANSPORT INFORMATION

DOT

**UN-Number** 

UN1791

USA UNISAN

Proper shipping name Hypochlorite solutions

Hazard Class 8
Packing Group ||

**Reportable Quantity (RQ)**Sodium hypochlorite: RQ kg= 550.30 **Description**UN1791, Hypochlorite solutions, 8, II, RQ

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Number

<u>TDG</u>

UN-Number UN1791

Proper Shipping Name Hypochlorite solution

Hazard Class 8
Packing Group ||

**Description** UN1791, Hypochlorite solution, 8, II

UN-Number UN1791

Proper Shipping Name Hypochlorite solution

Hazard Class 8
Packing Group ||

**Description** UN1791, Hypochlorite solution, 8, II

**ICAO** 

UN-Number UN1791

Proper shipping name Hypochlorite solution

Hazard Class 8
Packing Group ||

**Description** UN1791, Hypochlorite solution, 8, II

IATA

UN1791

Proper Shipping Name Hypochlorite solution

Hazard Class 8
Packing Group || ERG Code 8L

**Description** UN1791, Hypochlorite solution, 8, II

IMDG/IMO

UN-Number UN1791

Proper Shipping Name Hypochlorite solution

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

**Description** UN1791, Hypochlorite solution, 8, II

**UN-Number** UN1791

Proper Shipping Name Hypochlorite solution

Hazard Class 8
Packing Group II
Classification Code C9

**Description** UN1791, Hypochlorite solution, 8, II

<u>ADR</u>

UN-Number UN1791

Proper Shipping Name Hypochlorite solution

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

**Description** UN1791, Hypochlorite solution, 8, II, (E)

ADR/RID-Labels 8

Proper Shipping Name Hypochlorite solution

Hazard Class 8
Packing Group II
Classification Code C9
Special Provisions 521

**Description** UN1791, Hypochlorite solution, 8, II

Limited Quantity 1 L

## 15. REGULATORY INFORMATION

#### International Inventories

TSCA Complies
DSL Complies
EINECS Complies
IECSC Complies
KECL Complies
PICCS Complies
AICS Complies

## Legend

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

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

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
Sodium hypochlorite	100 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 hypochlorite	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

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Sodium hypochlorite	X	Х	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		

Prepared By

Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501

Issuing Date Revision Date Revision Note 07-Aug-2013 07-Aug-2013 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**