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.

Eves

- 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	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FI	RST	AID	MEA	٩SU	JR	ES
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Description of necessary first-aid measures

Eye ContactRinse 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.

7. HANDLING AND STORAGE

Precautions for safe handling

HandlingHandle 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 GuidelinesThis 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 ProtectionChemical splash goggles.Skin and Body ProtectionRubber gloves. Neoprene gloves.Respiratory ProtectionParticle filtering face piece

Hygiene MeasuresHandle in accordance with good industrial hygiene and safety practice.

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 10.0 Ha (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 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

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 No data available **Decomposition Temperature** None known

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 ContactCauses 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)	-

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	Daphnia Magna (Water
			Microorganisms	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
		mykiss)		magna)
		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		
		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)		ļ

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

UN1791

Proper shipping name Hypochlorite solutions

Hazard Class 8
Packing Group II

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

Emergency Response Guide 154

Number

TDG

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

<u>IATA</u>

UN-Number UN1791

Proper Shipping Name Hypochlorite solution

Hazard Class 8
Packing Group II
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 Class8Packing GroupIIClassification CodeC9Special Provisions521

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			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
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	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		

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