

# 2025-2026 Chemical Consortium JCI Jones Chemicals, Inc. Supplier Response

#### **Event Information**

Number: 2025-2026 Chemical Consortium

Title: 202503063901

Type: Request for Proposal- Sealed

Issue Date: 3/6/2025

Deadline: 3/20/2025 02:00 PM (ET)

Notes: Notice to Bidders:

Sealed Proposals in response to this Request for Proposal ("RFP") will be received by the Board of Water and Light ("BWL") for furnishing of Mid-Michigan Water Chemical Consortium 2025-2026.

Proposals must be in full accordance with the enclosed Scope of Work.

Proposals must be submitted through IonWave. Proposals received via e-mail will not be accepted.

The BWL reserves the right to reject any or all Proposals, waive irregularities or technicalities in any Proposal, and accept any Proposal in whole or in part, which in the opinion of the BWL, is in its best interest. The BWL does not limit the methods or factors to be used for evaluation.

#### **Contact Information**

Contact: Monica Clark

Address: 1110 South Pennsylvania Ave.

Lansing, MI 48912

Email: Monica.Clark@LBWL.COM

#### JCI Jones Chemicals, Inc. Information

Contact: Ashley Ziesmer Address: 18000 Payne Street

Riverview, MI 48193

(734) 283-0677 Riverview@JCIChem.com Email:

By submitting your response, you certify that you are authorized to represent and bind your company.

AAshley Ziesmer AZiesmer@JCIChem.com

Signature **Fmail** 

Submitted at 3/19/2025 10:51:00 AM (ET)

#### Supplier Note

Phone:

1,000-1,999 gals/del \$3.20/gal 2,000-2999 gals/del \$2.20/gal 3,000-3,999 gals/del \$1.90/gal 4,000-4,499 gals/del \$1.75/gal 4,500+ gals/del \$1.68/gal

#### Requested Attachments

**Exceptions to Terms and Conditions (if applicable)** No response

Misc Forms.pdf Other Attachment

Compled-Sworn and Notarized Affidavit of Compliance

Affidavit\_of\_Compliance.pdf

#### **Bid Attributes**

**Company Contact** 

Please provide the primary contact's name, e-mail, and phone number for this proposal.

Ashley Ziesmer, AZiesmer@JCIChem.com, (734) 283-0677

How many years has your firm been in business under the present ownership?

95 Years.

Have you done business with the Board of Water and Light? If so, furnish specifics.

Yes-We have supplied treatment chemicals upon since 2001 or prior.

Have you done business with the City of Lansing? If so, furnish specifics.

Yes-We have supplied treatment chemicals upon since 1998 or prior.

Have you ever defaulted on a contract or been involved in litigation with the BWL or the City of Lansing? If so, furnish specifics.

No.

Have you ever defaulted on a contract or been involved in litigation with any other client in the past five years? If so, furnish specifics.

No.

7	List any relationships between your firm's staff and any current BWL employee.				
	None.				
8	List at least three (3) references for similar work you have performed for other clients. Include client's name, contact name, title and phone number.  *C/O Dearborn 13020 Prospect, Dearborn, MI 48126 (313)706-7567. *Wayne County #5 Pump 797 Central, Wyandotte, MI 48192 (313)213-5243 *Macomb County 23001 Nine Mile Rd., St. Clair Shores, MI 48080 (586)772-				
	3425	5702 (570)210 0240 Middellib Goding 20001 Mille Ma., et. Glail Chores, Mil 40000 (600)172			
9	List subcontractors that you plan to use on this project.				
	None.				
1	Indicate any exc	ceptions to the enclosed Terms and Conditions			
0	If YES, Contractor Any submission or	r must provide red-lined editing on the BWL Terms and Conditions Microsoft Word document only. f, or general references to Contractor Terms and Conditions in its entirety anywhere within the idate the proposal.			
			_		
1	Acknowledgme	nt of receipt of any Addendas issued.			
	Yes				
1 2	Confirm you have	ve reviewed all attachments included in this solicitation.			
1	I have read and	agreed.			
3	The Bidder states that this proposal is made in conformity with the Proposal Documents and agrees that, in the event of any discrepancies or differences between any conditions of their proposal and the Proposal Documents provided in the Instructions to Bidders and completed by the bidder, the provisions of the latter shall prevail. No verbal or written agreements or understandings considered or entered into prior to signing of a contract in the form of a purchase order, shall be binding after the signing of the contract unless incorporated in the contract.  The Bidder certifies that this proposal is made in good faith, upon the best information, with knowledge and accuracy, and without collusion or connection with any other person or persons submitting proposals for the work.				
	✓ I have read and	d agreed			
3ic	Bid Lines				
1	Sodium Hypochlo	prite (per gallon)			
	Quantity: 1 L	JOM:         GAL         Price:         \$1.68         Total:         \$1.68			
	Manufacturer:	JCI Jones Chemicals, Inc.			
	Manufacturer #:	0			
	Supplier Notes:	1,000-1,999 gals/del \$3.20/gal 2,000-2999 gals/del \$2.20/gal 3,000-3,999 gals/del \$1.90/gal 4,000-4,499 gals/del \$1.75/gal 4,500+ gals/del \$1.68/gal			
2	Sodium Hypochlo	orite Demurrage (first 4 hours free)			
	Quantity: 1 L	JOM: HR No Bid			
	Manufacturer:	No response			
	Manufacturer #:	No response			
			_		

3	Hydrofluosilic Acid- 40,000 lbs. minimum shipments	
	Quantity: 1 UOM: TON	No Bid
	Manufacturer: No response	
	Manufacturer #: No response	
4	Hydrofluosilic Acid- 30,000 lbs. minimum shipments	
	Quantity: 1 UOM: TON	No Bid
	Manufacturer: No response	
	Manufacturer #: No response	
5	Hydrofluosilic Acid- multiple locations in 40,000 lbs. minimum shipments	
	Quantity: 1 UOM: TON	No Bid
	Manufacturer: No response	
	Manufacturer #: No response	
6	Hydrofluosilic Acid- Demurrage (first 4 hours free)	
	Quantity: 1 UOM: HR	No Bid
	Manufacturer: No response	
	Manufacturer #: No response	
7	Ferric Chloride- Dry Tons	
	Quantity: 1 UOM: TON	No Bid
	Manufacturer: No response	
	Manufacturer #: No response	
8	Ferric Chloride-Demurrage (first 4 hours free)	
	Quantity: 1 UOM: EA	No Bid
	Manufacturer: No response	
	Manufacturer #: No response	
9	Pebble Quicklime	
	Quantity: 1 UOM: TON	No Bid
	Manufacturer: No response	
	Manufacturer #: No response	

10	Pebble Quicklime- Demurrage (first 4 hours free)			
U	Quantity: 1	JOM: HR	No Bid	
	Manufacturer:	No response		
	Manufacturer #:	No response		
1 Soda Ash				
	Quantity: 1	JOM: TON	No Bid	
	Manufacturer:	No response		
	Manufacturer #:	No response		
1 2	Soda Ash- Demi	urrage (first 4 hours free)		
2	Quantity: 1	JOM: HR	No Bid	
	Manufacturer:	No response		
	Manufacturer #:	No response		

Response Total: \$1.68

#### SWORN AND NOTARIZED AFFIDAVIT OF COMPLIANCE

#### IRAN ECONOMIC SANCTIONS ACT

#### Michigan Public Act No. 517 of 2012

All bidders must submit the following certification statement in compliance with Public Act No. 517 of 2012 (the "Iran Economic Sanctions Act") and attach this form to the bid. The Lansing Board of Water & Light shall not accept any bid that does not include this sworn and notarized certification of statement.

The undersigned, the owner or authorized officer of <u>JCI JONES CHEMICALS</u>, INC. (the Bidder), pursuant to the compliance certification requirement provided in the Lansing Board of Water & Light Request for Proposal, hereby certifies, represents and warrants that the Bidder (including its officers, directors and employees) is not an "Iran linked business" within the meaning of the Iran Economic Sanctions Act, and that in the event the Bidder is awarded a contract as a result of the aforementioned Request for Proposal, the Bidder will not become an "Iran linked business" at any time during the course of performing the work or any services under the contract.

Specifically, the undersigned, owner or authorized officer of \_\_\_\_\_\_(the Bidder) attests it does not fall within the following definition of a "Iran linked business" under the Iran Economic Sanctions Act:

#### MCL 129.312 (e) of the Act provides:

- (e) "Iran linked business" means either of the following:
  - (i) A person [as defined below by MCL 129.312(f)] engaging in investment activities in the energy sector of Iran, including a person that provides oil or liquefied natural gas tankers or products used to construct or maintain pipelines used to transport oil or liquefied natural gas for the energy sector of Iran.
  - (ii) A financial institution that extends credit to another person, if that person will use the credit to engage in investment activities in the energy sector of Iran.

#### MCL 129.312(f) of the Act defines "Person" as follows:

- (f) "Person" means any of the following:
  - (i) An individual, corporation, company, limited liability company, business association, partnership, society, trust, or any other nongovernmental entity, organization, or group.
  - (ii) Any governmental entity or instrumentality of a government, including a multilateral development institution, as defined in section 1701(c)(3) of the international financial institutional act, 22 USC 262r(c)(3).

The Bidder further acknowledges that any person who is found to have submitted a false certification is responsible for a civil penalty of not more than \$250,000.00 or two (2) times the amount of the contract or proposed contract for which the false certification is made, whichever is greater, the cost of the Lansing Board of Water & Light's investigation, and reasonable attorney fees, in addition to the fine. Moreover, any person who submitted a false certification shall be ineligible to bid on a Request for Proposal for three (3) years from the date it is determined that the person has submitted the false certification.

	BIDDER JCI JONES CHEMICALS, INC.		
	of the same of the		
	By: ASHLEY ZIESMER		
	Its: OFFICE MANAGER		
	Date: MARCH 19, 2025		
STATE OFMICHIGAN)			
COUNTY OFWAYNE)			
This instrument was acknowledged before many Ziesmer.	ne on the 19 day of March, 20 25, by		
ALEXANDRIA FISHER  MOTARY  * March 15, 2031	Alexandria Fisher, Notary Public		
County of Wayne  Acting in the County of LOCAUNE	Wayne County, Michigan My		
3	Commission Expires: 3-15-2031 Acting		
	in the County of: 11301110		



## JCI Jones Chemicals, Inc. Consent to Shareholder Action

January 23, 2025

I, the undersigned shareholder, being the holder of all shares of stock of the above company now outstanding, hereby resolve as follows:

- 1. Ashley Ziesmer, Office Manager
- 2. Keith Gore, Branch Manager

are hereby authorized to submit and sign bids, contracts and other documents pertaining thereto of this Corporation, to municipalities and other for the sale of company products.

Jeffrey W. Jones, C.E.O. & President

Attest:

Summer Mello, Vice President

Summer Mpcco



## Payment Instructions: ACH and Wire

BANK: Bank OZK

8300 Douglas Ave-Suite 810

Dallas, TX 75225

Ray Dunavant: (214) 750-4800

BENEFICIARY: JCI Jones Chemicals Inc

**ACCOUNT #:** 2804444623

ACCOUNT TYPE: Checking

**ACH ROUTING #:** 082907273

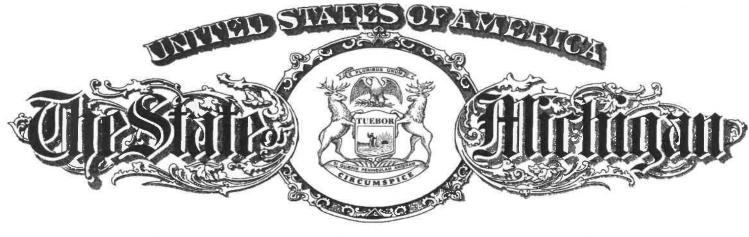
**WIRE ROUTING #:** 082907273

Please email payment remittance advice to ar@icichem.com.

Should you have any questions please contact our Accounts Receivable department using the email address above.

Thank you!

JCI Jones Chemicals, Inc





This is to Certify That

JCI JONES CHEMICALS, INC.

a(n) New York FOREIGN PROFIT CORPORATION, was validly authorized on June 18, 1993 to transact business in Michigan, and that said corporation holds a valid certificate of authority to transact business in this state.

This certificate is issued pursuant to the provisions of 1972 PA 284 to attest to the fact that the corporation is in good standing in Michigan as of this date and is duly authorized to transact in this state any business set forth in its application which a domestic corporation formed under this act may lawfully conduct.

This certificate is in due form, made by me as the proper officer, and is entitled to have full faith and credit given it in every court and office within the United States.



Sent by electronic transmission

Certificate Number: 25030054308

In testimony whereof, I have hereunto set my hand, in the City of Lansing, this 4th day of March , 2025.

Linda Clegg, Director

Corporations, Securities & Commercial Licensing Bureau

Verify this certificate at: URL to eCertificate Verification Search http://www.michigan.gov/corpverifycertificate.

### CERTIFICATE OF COMPLIANCE

20140416-MH18026 Certificate Number Report Reference MH18026-20020829

2014-APRIL-16 Issue Date

Issued to: JCI JONES CHEMICALS INC

> 1765 RINGLING BLVD SARASOTA FL 34236

This is to certify that representative samples of

DRINKING WATER TREATMENT CHEMICALS Sunny Sol® 150", "Sunny Sol® 100 Plus". Sunny Sol® 100", "Sunny Sol® Bleach

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety:

NSF/ANSI 60 - Drinking Water Treatment Chemicals -

Health Effects

Additional Information:

See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Classification Mark for the U.S. and Canada should be considered as being covered by UL's Classification and Follow-Up Service and meeting the appropriate U.S. and Canadian requirements.

The UL Classification Mark includes: the UL in a circle symbol: With the word "CLASSIFIED" (as shown); a control number (may be alphanumeric) assigned by UL; a statement to indicate the extent of UL's evaluation of the product; and the product category name (product identity) as indicated in the appropriate UL Directory. The UL Classification Mark for Canada includes: the UL Classification Mark for Canada: "W with the word "CLASSIFIED" (as shown); a control number (may be alphanumeric) assigned by UL; a statement to indicate the extent of UL's evaluation of the product; and the product category name (product identity) in English, French, or English/French as Indicated in the appropriate UL Directory.

Look for the UL Classification Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Any information and documentation involving UL Mark services are provided on behalf of UL LLO (UL) or any authorized fixeness of UL. For questions, please context a local UL Customer Service Representative at <u>www.ul.com/vertartus</u>





#### AFFIDAVIT OF COMPLIANCE

#### **SODIUM HYPOCHLORITE**

JCI Jones Chemicals, Inc. hereby guarantees that the sodium hypochlorite solution comprising each shipment or other delivery made to the buyer complies with all applicable requirements of the AWWA Standard for Hypochlorites, AWWA B300-10.

We believe the above certification holds true until such a time as the AWWA Standard for Hypochlorites is amended or the above certification is revoked in writing.

In addition, this product is certified under the ANSI/NSF Standard 60.

Very truly yours,

JCI JONES CHEMICALS, INC.

Ashley Ziesmer

Ashley Ziesmer Office Manager

#### JCI JONES CHEMICALS, INC. Product Specification Sunny Sol® 150 (FILTERED)

#### SPECIFICATION

		MINIMUM	TYPICAL	MAXIMUM
Sodium Hypochlorite				
Weight Percent		12.5	14.0	15.6
Excess Sodium Hydroxide				
Weight Percent Grams/Liter		0.1	0.6 7.7	2.0 25.0
Available Chlorine				
Weight Percent Trade (Volume) Percent Grams/Liter		11.9 14.2 142	13.3 16.1 161.4	14.8 18.5 185
Specific Gravity @ 68°F (20°C)		1.196	1.211	1.249
Weight of Solution @ 68°F (20°	°C)	10.0	10.1	10.4
Inert Ingredients				MAXIMUM
Sodium Carbonate Sodium Chloride	Na₂CO₃ NaCl			0.5% wt 12.5% wt
Metals				MAXIMUM
Arsenic Barium Cadmium Chromium Cobalt Copper Iron Manganese Nickel Selenium Silver Mercury	As Ba Cd Cr Co Cu Fe Mn Se Ag Hg			<pre>&lt;0.500 mg/L &lt;0.050 mg/L</pre>

NOTE: Always read and follow the product label and Safety Data Sheet (SDS).

(Continued on next page)

#### JCI JONES CHEMICALS, INC. Product Specification Sunny Sol® 150 (FILTERED)

#### Description

This product is a water solution of sodium hypochlorite. Inert ingredients, other than water and salt, include trace metallic and inorganic salt contaminants from raw materials and natural decomposition products. This product is registered with the USEPA (EPA Registration Number: 1744-20001), has USDA approvals 3D, B1, D2, L1 and Q4, meets ANSI/AWWA Standard B300-10, meets the FDA requirements of 21 CFR 178.1010, and meets the requirements of ANSI/NSF Standard 60 (Maximum Use Level: 80 mg/L).

This specification is based on registration requirements, mathematical calculation and historical product variability. JCI Jones Chemicals, Inc. does not make any expressed or implied warranty that future production will demonstrate or continue to possess typical properties.

## Jones Chemicals Inc.

#### SAFETY DATA SHEET



#### 1. Identification

Product identifier

Sunny Sol® 150

Other means of identification

SDS number

1201001

Synonyms

Sodium Hypochlorite Solution, Bleach.

Recommended use

Disinfection of Drinking Water, Sewage & Wastewater Effluent Treatment, Swimming Pool Water

Disinfection. Please contact JCI Jones Chemicals, Inc. for additional recommended uses.

Recommended restrictions

None known.

Company name

Address

JCI Jones Chemicals, Inc. 1765 Ringling Boulevard Sarasota, FL 34236

General Information

Telephone

Website

Emergency phone number

(800) 477-1078

www.jcichem.com CHEMTREC

US: 1-800-424-9300

Canada: 1-800-567-7455

#### 2. Hazard(s) identification

Physical hazards

Corrosive to metals

Category 1

Health hazards

Skin corrosion/irritation

Category.1

Serious eye damage/eye irritation

Category 1

Specific target organ toxicity, single exposure

Category 3 respiratory tract irritation

Environmental hazards

Hazardous to the aquatic environment, acute hazard

Category 1

Hazardous to the aquatic environment,

long-term hazard

Category 2

OSHA defined hazards

Not classified.

Label elements



Signal word

Danger

Revision date: -

Hazard statement

May be corrosive to metals. Causes severe skin burns and eye damage. May cause respiratory irritation. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention

Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist or vapor. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Keep only

in original container. Avoid release to the environment.

Response

If swallowed: Rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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/doctor. Wash contaminated clothing before reuse. Absorb spillage to prevent material

damage. Collect spillage.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive

resistant container with a resistant inner liner.

Sunny Sol 150 1201001 Version #: 01

Issue date: 1-December-2014

SDS US

1/8

#### Disposal

Hazard(s) not otherwise classified (HNOC)

Dispose of contents/container in accordance with local/regional/national/international regulations.

None known.

#### Supplemental information

Contact with acids liberates toxic gas.

#### 3. Composition/information on ingredients

#### Mixtures

CAS number	%	
7681-52-9	12.5 - 15.6	
1310-73-2	0.1 - 2.0	
	7681-52-9	

#### 4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Take off immediately all contaminated clothing. Wash off IMMEDIATELY with plenty of water for at least 15-20 minutes. Get medical attention immediately. Wash contaminated clothing before

reuse. Call a physician or poison control center immediately.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Corrosive effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

General information

Treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. With eye exposure, continue flushing during transport to hospital.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire-fighting equipment/instructions

General fire hazards

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire. Do not use dry extinguishing media that contains ammonium compounds.

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

#### Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Absorb spillage to prevent material damage. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

Methods and materials for containment and cleaning up Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS. Do not discharge into drains, water courses or onto the ground. Environmental manager must be informed of all major releases.

#### 7. Handling and storage

Precautions for safe handling

Wear appropriate personal protective equipment. Do not get in eyes, on skin, on clothing. Use with adequate ventilation. Observe good industrial hygiene practices. Do not apply heat or direct sunlight. Temperature and product concentration affect product quality and decomposition rates.

Conditions for safe storage, including any incompatibilities Keep container tightly closed. Store in a cool and well-ventilated place. Store in a corrosive resistant container. Consult container manufacturer for additional guidance. Store away from and do not mix with incompatible materials such as acids, oxidizers, organics, reducing agents, and all metals except titanium.

2 mg/m3

#### 8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Sodium hydroxide (CAS	PEL	2 mg/m3	
1310-73-2) US. ACGIH Threshold Limit Values		9.	
	Tyne	Value	

Type Components

Ceiling Sodium hydroxide (CAS 1310-73-2)

US. NIOSH: Pocket Guide to Chemical Hazards

Value Type Components 2 mg/m3 Ceiling Sodium hydroxide (CAS

1310-73-2) US. Workplace Environmental Exposure Level (WEEL) Guides

Value Type Components 2 mg/m3 STEL Sodium hypochlorite (CAS

7681-52-9)

No biological exposure limits noted for the ingredient(s). Biological limit values

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye

wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if Eye/face protection

needed.

Skin protection

Wear appropriate chemical resistant gloves. Hand protection

Wear appropriate chemical resistant clothing. Reports indicate that sodium hypochlorite can react Other

with various fabrics usually increasing with concentration. Reactions vary significantly depending on strength of chemical, material, fabric treatment and color of dyes. FRC treated cotton has a stronger response than plain cotton. Poly blend fabrics and meta aramid fabric have a weaker response than natural fibers. Contact the Personal Protective Equipment manufacturer for specific

information about their products.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn. Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

#### 9. Physical and chemical properties

Appearance

Liquid. Physical state Liquid. Form

Not available. Color Pungent. Odor

0.9 mg/m3 Odor threshold

12 - 14 (25 °C/77 °F) pΗ -11 °F (-24 °C) (12.5% solution) Melting point/freezing point

Initial boiling point and boiling

Not available.

range

Not applicable

Flash point Sunny Sol 150

SDS US 3/8 **Evaporation rate** 

No data available

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits Flammability limit - lower

Not applicable

Flammability limit - upper

Not applicable

(%)

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

12 mm Hg (20°C/68°F)

Vapor density Relative density Not available. Not available.

Solubility(ies)

Solubility (water)

Completely miscible

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature

Not applicable

Decomposition temperature

Not available. Not available.

Other information

**Bulk density** 

Not applicable

Molecular formula Molecular weight

NaOCI 74.5 g/mol

#### 10. Stability and reactivity

Reactivity

Viscosity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid

Contact with incompatible materials. Avoid ultraviolet (UV) light sources. Excessive heat. Reacts violently with strong acids. Acid contact will produce chlorine gas. Amine contact will produce

chloramines.

Incompatible materials

Strong oxidizing agents. Acids. Metals. Organic compounds. Ammonia.

Hazardous decomposition

products

No hazardous decomposition products are known.

#### 11. Toxicological information

Information on likely routes of exposure

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.

Inhalation

Vapors and spray mist may irritate throat and respiratory system and cause coughing.

Skin contact Eye contact

Causes skin burns.

Symptoms related to the

Causes eye burns.

physical, chemical and toxicological characteristics Corrosive effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity

Occupational exposure to the substance or mixture may cause adverse effects.

Product

**Test Results** Species

Sodium Hypochlorite, 5 - 17% (CAS Mixture)

Acute

Dermal

LD50

Rabbit

Rat

> 2 g/kg

Oral . LD50

3 - 5 g/kg

Sunny Sol 150 1201001 Version #: 01

Revision date: -

Issue date: 1-December-2014

SDS US

4/8

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization

No data available. No data available.

Skin sensitization Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Sodium hypochlorite (CAS 7681-52-9)

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

No data available.

Specific target organ toxicity -

May cause respiratory irritation.

single exposure

Specific target organ toxicity repeated exposure

No data available.

Aspiration hazard

Not classified, however droplets of the product may be aspirated into the lungs through ingestion

or vomiting and may cause a serious chemical pneumonia.

Chronic effects

Prolonged or repeated overexposure causes lung damage.

Further information

Prolonged inhalation may be harmful.

#### 12. Ecological information

**Ecotoxicity** 

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Product Sodium Hypochlorite, 5 - 17% (CAS Mixture)

Aquatic

Crustacea

LC50

Daphnia

Species

1 mg/l

**Test Results** 

Fish

LC50

Bluegill (Lepomis macrochirus)

0.6 mg/l, 48 hours

\* Estimates for product may be based on additional component data not shown.

Not available.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential.

No data available for this product.

Mobility in soil

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous waste code

Waste from residues / unused products

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### 14. Transport information

DOT

UN number

UN1791

UN proper shipping name Transport hazard class(es) Hypochlorite solutions

Class

8

Subsidiary risk

Packing group

Ш

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions

IB3, N34, T4, TP2, TP24

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Packaging exceptions
                                  154
     Packaging non bulk
                                  203
     Packaging bulk
                                  241
 IATA
     UN number
                                  UN1791
     UN proper shipping name
                                  Hypochlorite solution
     Transport hazard class(es)
         Class
                                  8
         Subsidiary risk
         Label(s)
                                  8
     Packing group
                                  m
     Environmental hazards
                                  Yes
     ERG Code
                                  8L
     Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
 IMDG
     UN number
                                  UN1791
     UN proper shipping name
                                  HYPOCHLORITE SOLUTION
     Transport hazard class(es)
         Class
                                  8
         Subsidiary risk
         Label(s)
                                  8
     Packing group
                                  Ш
     Environmental hazards
         Marine pollutant
                                  Yes
     EmS
                                  F-A, S-B
     Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
 Transport in bulk according to
 Annex II of MARPOL 73/78 and
 the IBC Code
 15. Regulatory information
                                  This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication
 US federal regulations
                                  Standard, 29 CFR 1910.1200.
     TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
         Not regulated.
     US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
      Not listed.
     CERCLA Hazardous Substance List (40 CFR 302.4)
         Sodium hydroxide (CAS 1310-73-2)
                                                              LISTED
                                                              LISTED
         Sodium hypochlorite (CAS 7681-52-9)
Superfund Amendments and Reauthorization Act of 1986 (SARA)
                                  Immediate Hazard - Yes
     Hazard categories
                                  Delayed Hazard - No
                                  Fire Hazard - No
                                  Pressure Hazard - No
                                  Reactivity Hazard - No
     SARA 302 Extremely hazardous substance
         Not listed.
     SARA 311/312 Hazardous
     chemical
     SARA 313 (TRI reporting)
         Not regulated.
 Other federal regulations
     Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
     Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
         Not regulated.
     Safe Drinking Water Act
                                  Not regulated.
     (SDWA)
```

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#### US state regulations

#### US. Massachusetts RTK - Substance List

Sodium hydroxide (CAS 1310-73-2) Sodium hypochlorite (CAS 7681-52-9)

#### US. New Jersey Worker and Community Right-to-Know Act

Sodium hydroxide (CAS 1310-73-2) Sodium hypochlorite (CAS 7681-52-9)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Sodium hydroxide (CAS 1310-73-2) Sodium hypochlorite (CAS 7681-52-9)

#### US. Rhode Island RTK

Sodium hydroxide (CAS 1310-73-2) Sodium hypochlorite (CAS 7681-52-9)

#### US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

#### International Inventories

Country(s) or region	Inventoryname	Off inventory (yourne)
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	″ No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

**USEPA Registration Number** 

1744-20001

ANSI/NSF Standard 60 Certified

Maximum Use Level: 80 mg/L

**AWWA Standard** 

AWWA B300-10

**USDA Authorized Uses** 

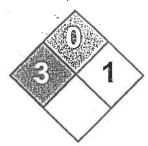
3D, B1, D2, L1, Q4

Issue Date

December 1, 2014

Revision Date N/A

NFPA Ratings



List of abbreviations

LD50: Lethal Dose, 50%.

LC50: Lethal Concentration, 50%. EC50: Effective concentration, 50%. TWA: Time weighted average.

References

EPA: AQUIRE database

HSDB® - Hazardous Substances Data Bank

US. IARC Monographs on Occupational Exposures to Chemical Agents

IARC Monographs. Overall Evaluation of Carcinogenicity

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

Olin Chlor Alkali Products Safety Data Sheet

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On inventory (yes/no)\*

#### Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.