# SAFETY DATA SHEET

Revision date 23-December-2021

1. Identification	
Product identifier	
Product Name	SODIUM HYPOCHLORITE SOLUTION, 5 PERCENT AVAILABLE CHLORINE, REAGENT, ACS
Other means of identification	
Product Code(s)	S1669
Synonyms	None
Recommended use of the chemical	and restrictions on use
Recommended use	No information available
Restrictions on use	No information available
Details of the supplier of the safety	data sheet
Supplier Address Spectrum Chemical Mfg. Corp. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000	

## Emergency telephone number

**Emergency Telephone** 

Chemtrec 1-800-424-9300

## 2. Hazard(s) identification

## **Classification**

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1

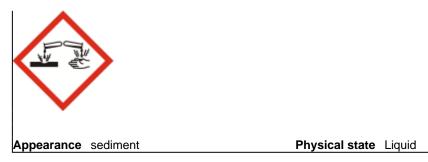
Hazards not otherwise classified (HNOC) Not applicable

Label elements Danger

Hazard statements Causes skin irritation Causes serious eye damage



Revision Number 2



Odor No information available

## **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/eye protection/face protection

## **Precautionary Statements - Response**

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 IF ON SKIN: Wash with plenty of water and soap If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse

## Other information

No information available.

## 3. Composition/information on ingredients

## Substance

Not applicable.

## Mixture

Chemical name	CAS No	Weight-%	Trade secret
Water	7732-18-5	94	*
Sodium Hypochlorite	7681-52-9	5	*
Sodium Hydroxide	1310-73-2	1	*

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

## 4. First-aid measures

## **Description of first aid measures**

General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Eye contact	Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).	
Most important symptoms and effec	ts, both acute and delayed	
Symptoms	Burning sensation.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

5. Fire-fighting measures	
Suitable Extinguishing Media Large Fire	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	No information available.
Explosion data Sensitivity to mechanical impac	t none.
Sensitivity to static discharge	none.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation.	
Other information	Refer to protective measures listed in Sections 7 and 8.	
Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Pick up and transfer to properly labeled containers.	

7. Handling and storage		
Precautions for safe handling		
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.	

# 8. Exposure controls/personal protection

## Control parameters

**Exposure Limits** 

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Hydroxide 1310-73-2	No data available	2 mg/m³ TWA	-

## Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch as personal protective equipment
Eye/face protection	Tight sealing safety goggles.
Hand protection	Wear suitable gloves. Impervious gloves.
Skin and body protection Respiratory protection	Wear suitable protective clothing. Long sleeved clothing. No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

# 9. Physical and chemical properties

Information on basic physical and chemical properties	Information on basic	; physica	I and chemical	properties
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Information on basic physical and o	chemical properties	
Physical state	Liquid	
Appearance	sediment	
Color	Yellowish	
Odor	No information available	
Odor threshold	No information available	
Property_	Values	Remarks • Method
pH	12-12.5	None known
Melting point / freezing point	no data available	None known
Boiling point / boiling range	no data available	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 Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	None known
Vapor density	no data available	None known
Relative density	1.1	None known
Water solubility	Miscible in water	None known
Solubility(ies)	no data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	no data available	None known
Decomposition temperature		None known

Kinematic viscosity	no data available	None known	
Dynamic viscosity	No data available	None known	
Other information Explosive properties	No information available		
Oxidizing properties	No information available		
Softening point	No information available		
Molecular weight	No information available		
VOC Content (%)	No information available		
Liquid Density	No information available		
Bulk density	No information available		
10. Stability and react	ivity		
Reactivity	No information available.		
Chemical stability	Stable under normal condition	IS.	

Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

## Information on likely routes of exposure

Product Information		
Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.	
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes. (based on components).	
Skin contact	Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).	
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.	
Symptoms related to the physical, chemical and toxicological characteristics		
Symptoms	Redness. Burning. May cause blindness. May cause redness and tearing of the eyes.	
Acute toxicity		
Numerical measures of toxicity		
The following values are calculated	d based on chapter 3.1 of the GHS document	

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ATEmix (oral)	27,486.90	mg/kg
ATEmix (dermal)	80,597.00	mg/kg

## **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
7732-18-5			
Sodium Hypochlorite	= 8.91 g/kg (Rat)	> 10000 mg/kg (Rabbit)	-

7681-52-9			
Sodium Hydroxide 1310-73-2	325 mg/kg ( Rat )	1350 mg/kg (Rabbit)	-

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Serious eye damage/eye ir	ritation Classification	Classification based on data available for ingredients. Irritating to skin. Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.		
Respiratory or skin sensiti Germ cell mutagenicity Carcinogenicity The table below indicates w	No information No inf	No information available. No information available. No information available. each agency has listed any ingredient as a carcinogen.		
Chemical name	ACGIH	IARC	NTP	OSHA
Sodium Hypochlorite 7681-52-9	-	Monograph 52 [1991] Hypochlorite salts	-	-

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Legend
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Reproductive toxicity	No information available.
STOT - single exposure STOT - repeated exposure Target organ effects	No information available. No information available. respiratory system, Eyes, Skin.
Aspiration hazard	No information available.
Other adverse effects	No information available.
Interactive effects	No information available.

# 12. Ecological information

## Ecotoxicitv

Ecoloxicity	•			
Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Sodium Hypochlorite 7681-52-9	EC50: =0.095mg/L (24h, Skeletonema costatum)	LC50: 0.03 - 0.19mg/L (96h, Oncorhynchus mykiss) LC50: 0.05 - 0.771mg/L (96h, Oncorhynchus mykiss) LC50: 0.06 - 0.11mg/L (96h, Pimephales promelas) LC50: 0.18 - 0.22mg/L (96h, Oncorhynchus mykiss) LC50: 0.28 - 1mg/L (96h, Lepomis macrochirus) LC50: 0.4 - 0.8mg/L (96h, Lepomis macrochirus) LC50: 4.5 - 7.6mg/L (96h, Pimephales promelas)		EC50: 0.033 - 0.044mg/L (48h, Daphnia magna) EC50: =2.1mg/L (96h, Daphnia magna)
Sodium Hydroxide	-	LC50: =45.4mg/L (96h,	-	40.4 mg/L EC50
1310-73-2		Oncorhynchus mykiss)		Ceriodaphnia sp. 48h

## Persistence and degradability **Bioaccumulation**

No information available. Inherently biodegradable.

Other adverse effects

No information available.

# 13. Disposal considerations

## Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

## 14. Transport information

DOT	not regulated
TDG	not regulated
<u>MEX</u>	not regulated
ICAO (air)	not regulated
IATA	not regulated
IMDG	not regulated
RID	not regulated
ADR	not regulated
ADN	not regulated

# 15. Regulatory information

## International Inventories

TSCA

Complies

DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	This product complies with ENCS:
IECSC	This product complies with China:
KECL	Complies
PICCS	Complies
AICS	All the constituents of this material are listed on the Australian Inventory of Chemical
	Substances (AICS).

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 Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

 $\ensuremath{\textbf{KECL}}\xspace$  - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

## US Federal Regulations

## SARA 313

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

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

## CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## 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
Sodium Hypochlorite	100 lb final RQ	-
7681-52-9	45.4 kg final RQ	
Sodium Hydroxide	1000 lb final RQ	-
1310-73-2	454 kg final RQ	

## US State Regulations

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

## U.S. EPA Label Information

## EPA Pesticide Registration Number Not applicable

## 16. Other information

HMIS Health hazards Flammability 0 Physical hazard Personal protect	aemical properties - 3 Is 0		<u>neet</u> STEL (Short Term Exposure Limit)	
Key literature references and sources for data used to compile the SDS   Agency for Toxic Substances and Disease Registry (ATSDR)   U.S. Environmental Protection Agency ChemView Database   European Food Safety Authority (EFSA)   EPA (Environmental Protection Agency)   Acute Exposure Guideline Level(s) (AEGL(s))   U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act   U.S. Environmental Protection Agency High Production Volume Chemicals   Food Research Journal   Hazardous Substance Database   International Uniform Chemical Information Database (IUCLID)   Japan GHS Classification   Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)				

NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date23-December-2021Revision NoteNo information available.DisclaimerNo

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End of Safety Data Sheet