

SECTION 1 – PRODUCT AND COMPANY INFORMATION

SAFETY DATA SHEET (GHS Format)

Also available for download at: <u>http://www.WalterLouis.com/MSDS/</u>

Product IdentifiersProduct name:SST-101 SWEET WATER TREATMENTProduct Application:Water TreatmentEmergency telephone number:CHEMTREC (800) 424-9300Poison Control: 1-800-222-1222

SECTION 2 – HAZARD IDENTIFICATION

Classification of the s GHS Classification in	substance or mixture accordance with 29 CFR 1910 (OSHA HCS)	• •	
Signal Word:	DANGER	XK PAN	
Physical Hazards:	May be corrosive to metals		
Health Hazards:	Skin Irritation/Corrosion (Category 1) Causes severe skin burns. Eye Damage/Irritation (Category 1) Causes severe skin burns and eye damage. May cause damage to organs		
Environmental Hazards:	Very toxic to aquatic life with long lasting effects Acute aquatic toxicity (Category 2) Harmful to aquatic life.		

Precautionary Statements

- P312 Call a POISON CENTER or doctor if you feel unwell
- P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting

• P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

- P363 Wash contaminated clothing before reuse
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing

- P310 Immediately call a POISON CENTER or doctor/physician
- · P260 Do not breathe dust/fume/gas/mist/vapors/spray
- · P264 Wash face, hands and any exposed skin thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P309 + P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician
- P405 Store locked up
- P501 Dispose of contents/container to industrial incineration plant
- P273 Avoid release to the environment
- P501 Dispose of contents/ container to an approved waste disposal plant
- P334 Immerse in cool water/wrap in wet bandages
- P390 Absorb spillage to prevent material damage
- P406 Store in corrosive resistant aluminum container with a resistant inliner
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P220 Keep/Store away from clothing/ combustible materials
- P221 Take any precaution to avoid mixing with combustibles
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
- P501 Dispose of contents/container to industrial incineration plant

HNOC: HMIS Rating: Health hazard:3 Chronic Health Hazard: Flammability: 0 Physical Hazard 0
NFPA Rating: Health hazard: 3 Fire Hazard: 0 Reactivity Hazard: 0
* Hazards not otherwise classified (HNOC) or not covered by GHS.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS



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Hazardous Ingredient	CAS	Wt%
Potassium Hydroxide	1310-58-3	25-32%
Sodium hypochlorite	7681-52-9	1-5%

SECTION 4 – FIRST AID MEASURES

Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

Indication of any immediate medical attention and special treatment needed: None known.

SECTION 5 – FIREFIGHTING MEASURES

Flammable Properties:	Non-Flammable
Explosive Properties:	N/A
Suitable Extinguishing media:	N/A
Unsuitable extinguishing media:	N/A

Special hazards arising from the substance or mixture: Overheating in fire conditions may produce POISONOUS GASES. Potassium Hydroxide in contact with water or moisture may generate enough heat to ignite combustibles.

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary. Further information: If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA Fire Brigades Standard (29 CFR 1910.156).

SECTION 6 – ACCIDENTIAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Wear respiratory protection. Avoid dust formation. Avoid breathing vapor, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see Section 8.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up: Keep in suitable, closed containers for disposal. Reference to other sections: For disposal see Section 13.

Product is water soluble and may be diluted and flushed as below described.



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Other Information: Concentrated product may be diluted to a similar working concentration and flushed to sewer, or soaked up with absorbent material and landfilled in accordance with local, state, and federal regulations.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin and eyes. Avoid formation of aerosols. Provide appropriate exhaust ventilation. For precautions see Section 2.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Store as a non-combustible, corrosive hazardous materials

SECTION 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

Control parameters

Component	CAS #	Value	Control Parameters	Basis
Sodium hypochlorite	7681-52-9	Not Regulated		
Potassium Hydroxide	1310-58-3	REL	2 mg/m³	Ceiling Limit Value
		TLV	2 mg/m³	Ceiling Limit Value

Exposure controls

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

<u>Skin protection</u>: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

<u>Respiratory protection</u>: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and

approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dark a	mber liquid with woody odor
pH:	>13.5
Specific Gravity:	1.185
Molecular Weight:	Mixture
Water Solubility:	Complete
Melt/Freeze Point:	Not Determined
Boiling Point:	110 C / 230 F
Flammability:	Not Flammable
Flash Point:	N/A



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Vapor Density:NANote:Physical Data is typical values based on material tested, but may vary based on
composition. Values should not be accepted as guaranteed for every lot or as
specifications for this product.

SECTION 10 – STABILITY AND REACTIVITY

Reactivity:No data availableChemical stability:Stable under normal conditions of use and storagePossibility of hazardous reactions:No data availableConditions to avoid:None knownIncompatible materials:Strong acids and oxidizers.Hazardous decomposition products:None known.

SECTION 11 – TOXICOLOGICAL INFORMATION

Component: Potassium hydroxide CAS	1310-58-3
Acute Oral Toxicity	LD50 (Rat) 273 mg/kg
Acute inhalation toxicity	80 mg/l (daphnia)
Acute Dermal Toxicity	No data available
Eye irritation	Strong irritant with the danger to cause serious eye injury, caused serious eye irritation
Target Organ Systemic Toxicant -Single exposure	Ingestion or inhalation will result in serious damage to affected membranes
Target Organ Systemic Toxicant - Repeated exposure	Routes of exposure: Inhalation May cause damage to organs through prolonged or repeated exposure.
Skin corrosion/irritation:	
Respiratory or skin sensitization:	Stong caustic effect on skin
Reproductive toxicity:	No data available
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Aspiration hazard:	No data available
Germ cell mutagenicity:	No data available

Component: Sodium hypochlorite CAS# 7681-52-9		
Acute Oral Toxicity	LD50 Rat 8200 mg/kg (Rat)	
Acute inhalation toxicity	No data available	
Acute Dermal Toxicity	LD50 Rabbit 10000 mg/kg (Rabbit)	
Eye irritation	No data available	
Target Organ Systemic Toxicant -Single		
exposure	No data available	



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Target Organ Systemic Toxicant - Repeated exposure	No data available
Skin corrosion/irritation:	No data available
Inhalation	No data available
Respiratory or skin sensitization:	No data available
Reproductive toxicity:	No data available
Carcinogenicity	IARC Not classifiable as a human carcinogen
Aspiration hazard:	No data available
Germ cell mutagenicity:	No data available

SECTION 12 – ECOLOGICAL INFORMATION

Component: Potassium hydroxide CAS 1310-58-3		
Toxicity, Fish	80 mg/l 96H	
Toxicity, invertebrates	60 mg/l 48H	
Toxicity, Algae	ErC50 61 mg/l 96H	
Bioaccumulation	This material will not bioconcentrate	
Mobility	No data available	
Biodegradability	This Material will disassociate into ionic form in the aquatic enviroment . Natural carbon dioxide will slowly neutralize this material	
Biochemical OxygenDemand (BOD)	No data available	
Other adverse effects:	No data available	

Component: Sodium hypochlorite CAS# 7681-52-9		
EcoToxicity	Very toxic to aquatic life with long lasting effects	
Toxicity, Fish	0.06 - 0.11: 96 h Pimephales promelas mg/L LC50 flow-through 4.5 - 7.6: 96 h Pimephales promelas mg/L LC50 static 0.4 - 0.8: 96 h Lepomis macrochirus mg/L LC50 static 0.28 - 1: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.05 - 0.771: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.03 - 0.19: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.18 - 0.22: 96 h Oncorhynchus mykiss mg/L LC50 static	



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530 South Fifth Street, Quincy, IL 62301-4896 V: 217-223-2017 F: 217-223-7734 8am-5pm US CST After Hours: CHEMTREC 1-800-424-9300

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Toxicity, invertebrates	2.1: 96 h Daphnia magna mg/L EC50 0.033 - 0.044: 48 h Daphnia magna mg/L EC50 Static
Toxicity, Algae	0.095: 24 h Skeletonema costatum mg/L EC50
Bioaccumulation	No data available
Mobility	No data available
Biodegradability	No data available
Biochemical OxygenDemand (BOD)	No data available
Other adverse effects:	No data available

SECTION 13 – DISPOSAL CONSIDERATION

Waste treatment methods:

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

This product is intended to be used in pretreatment of boiler water, and discharged to sanitary sewer in boiler blowdown water. Concentrated product may be diluted to a similar working concentration and flushed to sewer, or soaked up with absorbent material and landfilled in accordance with local, state, and federal regulations.

SECTION 14 - TRANSPORT INFORMATION (USDOT)

Proper shipping Name:	Corrosive Liquid, N.O.S. (Contains Potassium Hydroxide)
Hazard Class:	Corrosive (8)
UN/ID No	UN1760
Packing Group	II
Reportable Quantity (RQ)	3571 lbs (calculated)
Description:	N/A



SECTION 15 – REGULATORY INFORMATION

TSCA (Toxic Substance Control Act): Components of this product are listed on the TSCA Inventory.



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DSL: This product, or its components, are listed on or are exempt from the Canadian Domestic Substances List (DSL).

CERCLA: (Comprehensive Emergency Response Compensation, and Liability Act): Product is not found in "List of Hazardous Substances and Reportable Quantities" (40 CFR 302.4): None

RCRA: (Resource Conservation/Recovery Act): No

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Acute Health Hazard

STATES: Massachusetts Right to Know Components, Pennsylvania Right To Know Components, New Jersey Right To Know Components: Potassium hydroxide CAS-No.1310-58-3

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16 – OTHER INFORMATION

Fire Protection Association (NFPA) Ratings:



NSF Certification: N/A

This Safety Data Sheet compiled from information provided by the raw chemical product manufacturers.

Disclaimer: The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by the vendor for any damage or injury resulting from abnormal use, from failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.