

Product ST-5800
 Revision Date 09/01/2016
 Revision I



Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name	ST-5800
Identifier Uses	PTSA DYE SOLUTION
Supplier	Clear Water Technologies, LLC 13560 Colombard Court Fontana, California 92337 Tel: 844-429-8324
Contact Person	info@clearwatertech.com
Emergency Telephone	24-HOUR EMERGENCY TELEPHONE: INFOTRAC: 1-800-535-5053 INTERNATIONAL#: 1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

Appearance	Clear liquid.
Color	Clear liquid.
Odor	No odor
Pictogram(s)	
Signal Word	Warning
Hazard Statements	H315 Causes skin irritation. H319 Causes serious eye irritation. H401 Toxic to aquatic life.
Precautionary Statements	P280 Wear protective gloves/ protective clothing/eye protection/face protection. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332 + P313 If skin irritation occurs: Get medical advice/attention. P337 + P313 If eye irritation persists: Get medical advice/attention
Contains	Tetrasodium 1,3,6,8-pyrenetetrasulfonatehydrate
GHS Classification	Not classified
Physical and Chemical Hazards	Eye Irrit.2A - H315, Skin Irrit.2 - H315,
Human Health	Aquatic Acute 2 - H401
Environment	
OSHA Regulatory Status	This product is Hazardous under the OSHA Hazard communication Standard.
Inhalation	Inhalation of product vapors or fumes may cause irritation to mucous membranes and respiratory tract. Symptoms of exposure may include nasal irritation, coughing and wheezing.
Ingestion	Exposure to liquid product is not expected to result in significant adverse effects.
Skin contact	Exposure to liquid product may be slightly irritating to skin. Symptoms of exposure may include redness, swelling or pain.
Eye contact	Exposure to liquid product may cause moderate irritation to eyes. Symptoms of exposure may include redness, swelling, tearing or pain.
Routes of Exposure	No Information available.

SECTION 3: Composition/Information on Ingredients

Name	Product Identifier	GHS Classification	%
Tetrasodium 1,3,6,8-pyrenetetrasulfonatehydrate	CAS-No.: 59572-10-0 EC No.: 231-633-2	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H315, H319, H335	0-1%

SECTION 4: FIRST AID MEASURESDescription of first aid measures

General Information	General first aid, rest, warmth and fresh air.
Inhalation	If this product is inhaled and symptoms occur, move the exposed person to fresh air promptly. Seek medical attention if symptoms persist.
Ingestion	If this product is ingested, drink small amounts of water and seek medical attention promptly. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
Skin contact	If this product contacts the skin, immediately flush the affected area with soap and water for at least fifteen (15) minutes. If the product penetrates the clothing, promptly remove the contaminated clothing or shoes, and flush the affected area as described. Seek medical attention if irritation persists.
Eye contact	If this product contacts the eyes, immediately flush eyes with plenty of clean running water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Remove contact lenses if worn. Seek medical attention if irritation persists.

Most important symptoms and effects, both acute and delayed

General Information	No information available
Inhalation	Inhalation of product vapors or fumes may cause irritation to mucous membranes and respiratory tract. Symptoms of exposure may include nasal irritation, coughing and wheezing.
Ingestion	Exposure to liquid product is not expected to result in significant adverse effects.
Skin contact	Exposure to liquid product may be slightly irritating to skin. Symptoms of exposure may include redness, swelling or pain.
Eye contact	Exposure to liquid product may cause moderate irritation to eyes. Symptoms of exposure may include redness, swelling, tearing or pain.
Routes of Exposure	No Information available.

Most important symptoms and effects, both acute and delayed

Notes To The Physician	Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.
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SECTION 5: Firefighting Measures

Auto Ignition Temperature (°C)	No Information available.
Flammability Limit - Lower (%)	No Information available.
Flammability Limit - Upper (%)	No Information available.
Flashpoint	No Information available.
Extinguishing Media	Use water, foam, dry chemical or carbon dioxide to extinguish fire.
Hazardous combustion products	Combustion leads to the release of ammonia, oxides of nitrogen and oxides of carbon.
Unusual Fire & Explosion Hazards	Irritating vapors may be emitted during a fire.
Special Fire Fighting Procedures	Use water to cool containers exposed to a fire.
Protective equipment for fire-fighters	Fire fighters should wear full protective equipment, and have self-contained breathing apparatus available. Fire fighters should wear full protective equipment, and have self-contained breathing apparatus available.

SECTION 6: Accidental Release Measures

Personal Precautions	Use proper personal protection (refer to Section 8).
Environmental Precautions	Run off from fire control or dilution water may cause pollution. Keep out of drains, municipal sewers, open bodies of water and water course.

Spill Clean Up Methods

Safely stop source of spill. Clean up spills immediately. Restrict non-essential personnel from the area. Wear protective clothing, goggles and respirator if ventilation is not adequate. For small spills, dilute with large amounts of water and flush to sewer. For large spills, squeegee and collect the spillage or vacuum the spillage. Place collected spillage into containers for reuse or disposal. Dispose according to local, state or federal regulations at an approved chemical waste reprocessing facility. Flush spill area with large amounts of water.

SECTION 7: Handling and Storage**Handling**

Use proper personal protection when handling (refer to Section 8). Use under well-ventilated conditions. Avoid contact with eyes, skin and clothing. Avoid breathing vapors and mists. Avoid prolonged or repeated contact. Do NOT ingest. Wash thoroughly after handling. Rinse container before disposal.

**Usage Description
Storage Precautions**

Use only according to directions.
The recommended shelf life is two (2) years. It is recommended that products be retested if stored for more than two (2) years. Under ideal storage conditions, the shelf life is almost indefinite.

Specific End Use(s)

The identified uses are in section 1 of this Safety Data Sheet.

SECTION 8: Exposure Controls/Personal Protection**Protective Equipment**

Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
orthophosphoric acid	OSHA		1mg/m ³			

Ingredient Comments

OSHA

**Process Conditions
Engineering Measures
Respiratory Equipment**

Provide eyewash, quick drench.
General mechanical ventilation is recommended for enclosed areas.
Use of respirator protection is not generally required. However, if exposure is above the stated limits or ventilation is inadequate, use a NIOSH approved acid gas/organic vapor respirator to reduce potential for inhalation exposure. When using respirator cartridges, they must be changed frequently to assure breakthrough exposure does not occur.

**Hand Protection
Eye Protection**

Use rubber or plastic gloves to minimize skin contact.
To avoid contact with eyes, use safety glasses or chemical splash goggles. Face shield is recommended. Eye wash station should be available in the work area.

Hygiene Measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

SECTION 9: Physical and Chemical Properties**Information on Basic Physical and Chemical Properties**

Appearance	Clear, dark amber liquid.
Color	Clear, dark amber liquid.
Odor	Mild ammonia-like.
Odor Threshold - Lower	No Information available.
Odor Threshold - Upper	No Information available.
pH-Value, Conc. Solution	8.0 - 11.0

Melting point	32.0 °F
Initial boiling point and boiling range	212.0 °F
Flashpoint	No Information available.
Evaporation rate	No Information available.
Flammability State	No Information available.
Flammability Limit - Lower(%)	No Information available.
Flammability Limit - Upper(%)	No Information available.
Vapor pressure	No Information available.
Vapor Density (air=1)	No Information available.
Relative density	1.03 @ 68.0 °F
Bulk Density	No Information available.
Solubility	Completely soluble in water.
Decomposition temperature	No Information available.
Partition coefficient; n-octanol/water	No Information available.
Auto Ignition Temperature (°C)	No Information available.
Viscosity	No Information available.
Explosive Properties	No information available.
Oxidizing Properties	No Information available.
Molecular Weight	No Information available.
Volatile Organic Compound	No Information available.

SECTION 10: Stability and Reactivity

Reactivity	Reactions may occur with strong oxidizing materials, acids, chlorine bleach, caustics/alkalis, copper, aluminum and zinc.
Stability	This product is stable at ambient temperatures and atmospheric pressures.
Hazardous Polymerisation	Hazardous polymerization is not expected to occur under normal temperatures and pressures..
Hazardous Decomposition Products	oxides of nitrogen and oxides of carbon.
Conditions to Avoid	Avoid contact with strong oxidizing materials, acids, chlorine bleach, caustics/alkalis, copper, aluminum and zinc.
Materials to Avoid	Keep away from strong oxidizing materials, acids, chlorine bleach, caustics/alkalis, copper, aluminum and zinc.

SECTION 11: Toxicological Information

Toxicological Information	No toxicological information for the overall finished product.
Acute Toxicity (Oral LD50)	>1398.00mg/kg Rat
Acute Toxicity (Dermal LD50)	>662.00mg/kg Rabbit
Acute Toxicity (Inhalation LC50)	>3900.00mg/l (vapours) Rabbit

Skin Corrosion/Irritation	No Information available.
Respiratory Sensitisation	No Information available.
Skin Sensitisation	No Information available.
Reproductive Toxicity:	No Information available.
Germ Cell Mutagenicity:	
Genotoxicity - In Vitro	
Genotoxicity - In Vivo	
Carcinogenicity:	
Carcinogenicity	No Information available.
NTP - Carcinogenicity	The product and its components are not listed.
OSHA - Carcinogenicity	The product and its components are not listed.
IARC Carcinogenicity	The product and its components are not listed.
Specific Target Organ Toxicity - Single Exposure:	
STOT - Single Exposure	No Information available.
Specific Target Organ Toxicity - Repeated Exposure:	
STOT - Repeated Exposure	No Information available.

SECTION 12: Ecological Information

Ecotoxicity	No Information available.
Acute Toxicity - Fish	LC50 96 Hours >4940.00ppm Onchorhynchus mykiss (Rainbow Trout)
Acute Toxicity - Aquatic Invertebrates	LC50 48 Hours >6310.00ppm Daphnia magna
Acute Toxicity - Aquatic Plants	No Information available.
Degradability	No information available.
Bioaccumulative Potential	
Mobility	Completely soluble in water.
Results of PBT and vPvB Assessment	The product does not contain any PBT or vPvB Substances.
Other Adverse Effects	None known.

SECTION 13: Disposal Considerations

Waste Management	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
Disposal Methods	Do NOT dump into any sewers, on the ground or into any body of water. Rinse containers before disposal. Since emptied containers contain product residue, follow label warnings even after container is emptied. Dispose in accordance with all applicable federal, state and local laws and regulations.

SECTION 14: Transport Information

UN No. (DOT/TDG)	Not applicable.
UN No. (IMDG)	Not applicable.
UN No. (ICAO)	Not applicable.
DOT Proper Shipping Name	Not applicable.
TDG Proper Shipping Name	Not applicable.
DOT Hazard Class	Not applicable.
DOT Hazard Label	Not applicable.
TDG Class	Not applicable.

TDG Label(s)	Not applicable.
IMDG Class	Not applicable.
ICAO Class	Not applicable.
Transport Labels	
DOT PackGroup	Not applicable.
IMDG Pack Group	Not applicable.
Air Pack Group	Not applicable.
EMS	Not applicable.
Environmentally Hazardous Substance/Marine Pollutant	No

SECTION 15: Regulatory Information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

The Following ingredients are listed None Listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

The Following ingredients are listed None Listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

The Following ingredients are listed None Listed.

SARA 313 Emission Reporting

The Following ingredients are listed None Listed.

CAA Accidental Release Prevention

The Following ingredients are listed Tetrasodium 1,3,6,8-pyrenetetrasulfonatehydrate

OSHA Highly Hazardous Chemicals

The Following ingredients are listed None Listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

The Following ingredients are listed None Listed.

California Air Toxics "Hot Spots" (A-I)

The Following ingredients are listed None Listed.

California Air Toxics "Hot Spots" (A-Ii)

The Following ingredients are listed None Listed.

Massachusetts "Right To Know" List

The Following ingredients are listed Tetrasodium 1,3,6,8-pyrenetetrasulfonatehydrate

Rhode Island "Right To Know" List

The Following ingredients are listed None Listed.

Minnesota "Right To Know" List

The Following ingredients are listed Tetrasodium 1,3,6,8-pyrenetetrasulfonatehydrate

New Jersey "Right To Know" List

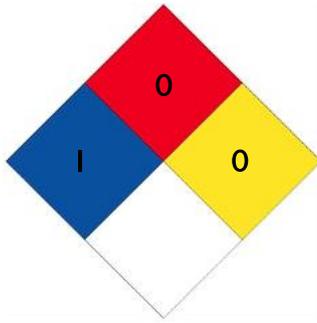
The Following ingredients are listed Tetrasodium 1,3,6,8-pyrenetetrasulfonatehydrate

Pennsylvania "Right To Know" List

The Following ingredients are listed orthophosphoric acid

SECTION 16: Other Information

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	B

Revision Comments
Revision Date 09/01/2016
Revision 1

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.