

Product ST-5700
 Revision Date 12/02/2015
 Revision 2



Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name	ST-5700
Identifier Uses	Resin Cleaner.
Supplier	Clear Water Technologies, LLC 13560 Colombard Court Fontana, California 92337 Tel: 844-429-8324
Contact Person Emergency Telephone	info@clearwatertech.com 24-HOUR EMERGENCY TELEPHONE: INFOTRAC: 1-800-535-5053 INTERNATIONAL#: 1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

Appearance	Clear, colorless liquid.
Color	Clear, colorless.
Odor	Odorless.

Pictogram(s)



Signal Word	Warning
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Hazard Statements	H303 May be harmful if swallowed H315 Causes skin irritation. H319 Causes serious eye irritation.
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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. P310 Immediately call a POISON CENTER or doctor/physician
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Contains	potassium hydroxide phosphonic acid phosphoric acid ... %, orthophosphoric acid ... %
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GHS Classification Physical and Chemical Hazards Human Health Environment	Not classified Acute Tox 5 - H303, Eye Irrit. 1 - H319, Skin Irrit.2 - H315 Not classified
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OSHA Regulatory Status	This product is Hazardous under the OSHA Hazard communication Standard.
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Inhalation	Inhalation of vapors or fumes may cause slight to moderate irritation to mucous membranes and respiratory tract.
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Ingestion Skin contact	Exposure to liquid product is not expected to result in significant adverse effects. Exposure to liquid product may be slightly irritating to skin. Symptoms of exposure may include redness, itchiness, swelling or pain.
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Eye contact	Exposure to liquid product may cause moderate irritation to eyes. Symptoms of exposure may include redness, swelling, tearing or pain.
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Routes of Exposure	No Information available.
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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Composition Comments	Confidential business information has been removed without affecting the overall safety information on the safety data sheet.
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SECTION 4: FIRST AID MEASURES

Description 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 vapors or fumes may cause slight to moderate irritation to mucous membranes and respiratory tract.
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, itchiness, 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 may lead to the release of phosphines, carbon monoxide, carbon dioxide and nitrogen oxide.
Unusual Fire & Explosion Hazards	Dried residue can thermally decompose, giving off irritating and possibly toxic fumes.
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.

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	Use only according to directions.
Storage Precautions	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
phosphoric acid ... %, orthophosphoric acid ... %	OSHA		1mg/m3			

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 Chemical and Physical Properties

Appearance	Clear, colorless liquid.
Color	Clear, colorless.
Odor	Odorless.
Odor Threshold -Lower	No Information available.
Odor Threshold - Upper	No Information available.
pH-Value, Conc. Solution	5.4
Melting point	32.0 °F
Initial boiling point and boiling range	212.0 °F

Flash point	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	1.11 @ 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	0.0

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Reactions may occur with strong oxidizing materials, alkalis and amines.
Stability	This product is stable at ambient temperatures and atmospheric pressures.
Hazardous Polymerization	Hazardous polymerization is not expected to occur under normal temperatures and pressures.
Hazardous Decomposition Products	Hazardous combustion results in oxides of phosphines, carbon monoxide, carbon dioxide, nitrogen oxide.
Conditions to Avoid	Avoid contact with strong oxidizers, alkalis and amines.
Materials to Avoid	Keep away from strong oxidizers, alkalis and amines.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological Information	No toxicological information for the overall finished product.
Acute Toxicity (Oral LD50)	>2028.00mg/kg Rat
Acute Toxicity (Dermal LD50)	>1006.00mg/kg Rabbit
Acute Toxicity (Inhalation LC50)	No Information available.
Skin Corrosion/Irritation	No Information available.
Respiratory Sensitization	No Information available.
Skin Sensitization	No Information available.
Reproductive Toxicity:	No Information available.
Germ Cell Mutagenicity:	No Information available.
Genotoxicity - In Vitro	No Information available.

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.

Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
potassium hydroxide	284mg/kg Rat		

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No Information available.
Acute Toxicity - Fish	LC50 96 Hours >525.00ppm Onchorhynchus mykiss (Rainbow Trout)
Acute Toxicity - Aquatic Invertebrates	No Information available.
Acute Toxicity - Aquatic Plants	No Information available.
Degradability	No information available.
Bioaccumulative Potential	No data available on bioaccumulation. No data available on bioaccumulation.
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 Pack Group	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 potassium hydroxide
 phosphoric acid ... %, orthophosphoric acid ... %

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 None Listed.

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 phosphoric acid ... %, orthophosphoric acid ... %

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

The Following ingredients are listed None Listed.

Massachusetts "Right To Know" List

The Following ingredients are listed potassium hydroxide
 phosphoric acid ... %, orthophosphoric acid ... %

Rhode Island "Right To Know" List

The Following ingredients are listed potassium hydroxide
 nitrilotrimethylenetris(phosphonic acid)
 phosphoric acid ... %, orthophosphoric acid ... %

Minnesota "Right To Know" List

The Following ingredients are listed potassium hydroxide
 nitrilotrimethylenetris(phosphonic acid)
 phosphoric acid ... %, orthophosphoric acid ... %

New Jersey "Right To Know" List

The Following ingredients are listed potassium hydroxide
 nitrilotrimethylenetris(phosphonic acid)
 phosphonic acid
 phosphoric acid ... %, orthophosphoric acid ... %

