WATER TREATMENT SERVICES, INC.

P.O. BOX 235 WENDEL, PA 15691

For 24 hour emergency service contact INFOTRAC at 800-535-5053 For additional information contact 724-396-2542

Safety Data Sheet

WTSCT-324

1. IDENTIFICATION

Product name

WTSCT-324

Description

Proprietary aqueous solution

Product class

Boiler Water

Supplier address

P.O. Box 60240

Rossford, OH 43460

Telephone numbers

Company Phone Number

Emergency Telephone

INFOTRAC 800-535-5053

2. HAZARDS IDENTIFICATION

Hazard classification

Skin Corrosion, Category 1

Serious Eye Damage, Category 1

Carcinogenicity, Category 1B (Inhalation)

Signal word

Danger

Hazard statements

Causes severe skin burns and eye damage.

Causes serious eye damage. May cause cancer if inhaled.

Pictograms of related hazards





Precautionary statements

Prevention

Do not breathe fumes, mist, vapors, or spray.

Wash skin thoroughly after handling.

Wear protective gloves, protective clothing, eye protection, and face protection.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Use personal protective equipment as required.

Product: WTSCT-324

Response

Wash contaminated clothing before reuse.

Specific measures:

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately contact a POISON CENTER or health care provider.

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water or emergency shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately contact a POISON CENTER or health care provider.

IF exposed or concerned: Get medical attention.

Storage

Store locked up.

Store in a closed container.

Disposal

Dispose of in accordance with local, state, and federal regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Weight %
2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	37971-36-1	1–10
Benzotriazole	95-14-7	1–10
Sulfuric acid	7664-93-9	<2
Non-hazardous substances	Proprietary	>80

4. FIRST-AID MEASURES

Eye contact	Immediately flush eyes with plenty of water for at least 15
	minutes, lifting lower and upper eyelids occasionally to
	oneuro complete ringing. Pomovo contact longes if procent

ensure complete rinsing. Remove contact lenses if present and easy to do, then resume rinsing. Get medical attention

immediately.

Skin contact Immediately remove all contaminated clothing. Rinse with

copious amounts of water; use an emergency shower if

available. Wash contaminated clothing before reuse.

Ingestion If swallowed, DO NOT induce vomiting. Rinse mouth and

get emergency medical attention. Do not give anything by mouth unless instructed to do so by a poison center or

health care provider.

Inhalation If inhaled, move victim to fresh air. Seek emergency

medical attention if breathing is difficult; perform artificial

respiration if breathing stops.

Note to health care provider Esophageal corrosion may contraindicate the use of

gastric lavage and/or activated charcoal.

Safety Data Sheet

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray, foam, dry chemical, carbon dioxide

Unsuitable extinguishing media

No information available

Protective equipment and precautions for firefighters Exercise caution when fighting any chemical fire. A selfcontained breathing apparatus and protective clothing are essential. Use water to keep fire-exposed containers cool.

Product: WTSCT-324

Specific hazards

Reaction with metals may evolve highly flammable

Hazardous combustion products

hydrogen gas. Combustion may produce toxic gases.

Carbon oxides. nitrogen

oxides, sulfur oxides. phosphorous oxides, corrosive vapor

6. ACCIDENTAL RELEASE MEASURES

Evacuate the area of all non-essential personnel. Do not Personal precautions

touch spilled material without proper protective equipment. Ventilate the area and mitigate further release if it is safe

to do so. Avoid contact with eyes.

Methods for clean-up

Contain spill and soak up with an inert absorbent material Small spills

and place residues in a properly labeled container for disposal. Avoid discharge into sewer or surface water.

Contain spill using trenches, diking, or absorption with an Large spills

inert material (i.e. sand or earth). Reclaim spilled material into recovery or salvage drums or tank truck for proper

disposal.

7. HANDLING AND STORAGE

Avoid contact with eyes, skin, and clothing. Avoid Advice on safe handling

breathing vapor or mist. Wash hands thoroughly after

handling.

Store in a cool, dry, well-ventilated area away from Storage conditions

incompatible materials. Keep containers closed when not

in use.

Suitable materials of

construction

Corrosion-resistant container; original container only is

recommended.

Unsuitable materials of

construction

Metals

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/face protection

Chemical splash goggles, face shield

Skin protection

Chemical-resistant gloves and body-covering clothing

Respiratory protection

NIOSH approved respirator in accordance with OSHA respiratory protection requirements (29 CFR 1910.134) if

airborne concentrations exceed published exposure limits.

Product: WTSCT-324

Engineering controls

Adequate ventilation, eye-wash station, and emergency

shower

General hygiene considerations

Do not eat, drink, or smoke while handling this product.

Chemical Name	OSHA PEL	ACGIH TLV
2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	None established	None established
Benzotriazole	None established	None established
Sulfuric acid	1 mg/m³	0.2 mg/m³
Non-hazardous substances	None established	None established

9. PHYSICAL AND CHEMICAL PROPERTIES

рН	1.2-2.0	
Appearance	Clear colorless liquid	
Odor	Mild to no odor	
Odor Threshold	No information available	
Melting/freezing point	No information available	
Initial boiling point/boiling range	No information available	
Flash point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Upper/lower flammability or explosive limits	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
VOC content	No information available	
Specific gravity	1.100-1.180	
Solubility	Complete	
Partition coefficient n-octanol/water	No information available	
Auto-ignition temperature	No information available	
Decomposition temperature	No information available	
Viscosity	No information available	

10. STABILITY AND REACTIVITY

Chemical stability

Stable under normal conditions of storage and handling.

Hazardous polymerization

Polymerization will not occur.

Conditions to avoid

Extreme temperatures, incompatibilities

Safety Data Sheet

Incompatibilities

Strong bases, oxidizers

Hazardous decomposition

products

No known non-thermal decomposition hazards.

Product: WTSCT-324

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure

Skin, eyes, ingestion

Acute toxicity

Test Material	Parameter	Result
2-Phosphono-1,2,4- butanetricarboxylic acid (PBTC)	LD ₅₀ , Oral (rat)	>4,000 mg/kg
•	LC ₅₀ , Inhalation (rat)	1,979 mg/m³/4hr
	Draize, Skin (rabbit)	Not irritating
	Draize, Eye (rabbit)	Moderately irritating
Benzotriazole	LD ₅₀ , Oral (rat)	560 mg/kg
Sulfuric acid	LD ₅₀ , Oral (rat)	2,140 mg/kg
	LC ₅₀ , Inhalation (rat)	510 mg/m³
	Draize, Skin (rabbit)	Extreme corrosion; tissue destruction
	Usual Fatal Dose (Human)	20-30 ml

Acute symptoms and effects

Eye

Severe eye irritation with serious damage including, but not limited to, tissue destruction, corneal opacification, and

temporary or permanent blindness.

Skin

Skin irritation with or without pain, burning, itching, redness, and swelling. Symptoms may be exacerbated by open wounds, excoriations, rashes, or other skin breaches.

Ingestion

Gastrointestinal distress with or without nausea, vomiting, and diarrhea. May cause irritation or corrosion of the oral

and esophageal mucosa.

Inhalation

Upper respiratory irritation with or without cough, watering of the eyes, and postnasal drip. Aspiration of liquid or vomit may cause severe respiratory distress, airway corrosion,

and acute lung damage.

Reproductive effects

No information available

No information available

Teratogenicity

No information available

Mutagenicity Embryotoxicity

No information available

Sensitization to product

No information available

Synergistic products

No information available

Safety Data Sheet

Product: WTSCT-324

Carcinogenicity

Sulfuric acid is a suspected human carcinogen when present in inorganic mists. Solutions of sulfuric acid have

not been explicitly classified as carcinogenic.

Chronic

No information available

12. ECOLOGICAL INFORMATION

Test Material	Parameter	Result
Sulfuric acid	96 hr LC50, Mosquito fish	42 mg/L
	48 hr EC50, Daphnia magna	29 mg/L

Persistence

No information available

Bioaccumulative potential

No information available

Mobility

No information available

13. DISPOSAL CONSIDERATIONS

Disposal

Dispose of in accordance with federal, state, and local

regulations.

RCRA status

As sold, discarded product would be considered a RCRA hazardous waste based on the corrosive characteristics.

The EPA hazardous waste number is D002.

14. TRANSPORT INFORMATION

US Department of Transportation (DOT)

UN Number

UN3264

Proper shipping name

Corrosive liquid, acidic, inorganic, n.o.s. (contains sulfuric

acid

Primary hazard class/division 8

Secondary hazard

None

Packing group

Ш

Label

Corrosive

15. REGULATORY INFORMATION

OSHA Hazard Communication

Status

Skin Corrosion, Category 1

Serious Eye Damage, Category 1

Carcinogenicity, Category 1B (Inhalation)

EPA Registration Number

Not applicable

TSCA

The ingredients of this product are listed on the Toxic

Substances Control Act (TSCA) Chemical Substances

Inventory.

CERCLA

EPA Hazardous Substances (40 CFR 302)

Chemical Name	CERCLA Reportable Quantity (RQ)	
2-Phosphono-1,2,4- butanetricarboxylic acid (PBTC)	None	
Benzotriazole	None	
Sulfuric acid	1,000 ib	
Non-hazardous substances	None	
Product	50,000 lb	
	(Notify the EPA of spills exceeding this amount.)	

SARA Title III (Sections 302, 311, 312, and 313)

Section 302 Extremely Hazardous Substances (40 CFR 355)

Chemical Name	CAS#	RQ	TPQ
Sulfuric acid	7664-93-9	1,000 lb	1,000 lb

Section 311 and 312 Health and Physical Hazards

Immediate	Delayed	Fire	Pressure	Reactivity
Yes	Yes	No	No	No

Section 313 Toxic Chemicals (40 CFR 372)

Chemical Name	CAS Number	Percent by Weight
Sulfuric acid	7664-93-9	<2

16. OTHER INFORMATION

HMIS Ratings

Health-3; Flammability-0; Reactivity-0

NFPA Ratings

Health—3; Flammability—0; Reactivity—0;

Special Hazard—None

HMIS and NFPA Rating Scale

Minimal—0; Slight—1; Moderate—2; Serious—3;

Severe-4

SDS Issue Date

February 23, 2015

Revision Date

Version 1

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.