

511 Railroad Ave. Homer City, PA 15748 (724) 915-8388 www.chemstream.com

# Safety Data Sheet CWT-305

	1. IDENTIFICATION	
Product name	CWT-305	
Description	Aqueous phosphonate solution	
Product class	Cooling Water	
Supplier address	511 Railroad Ave Homer City, PA 15748	
Telephone numbers <u>Company Phone Number</u>	(724) 915-8388	
Emergency Telephone	CHEMTREC 800-424-9300	
2. +	AZARDS IDENTIFICATION	
Hazard classification	Corrosive to Metals, Category 1 Eye Irritation, Category 2A	
Signal word	Warning	
Hazard statements	May be corrosive to metals. Causes serious eye irritation.	
Pictograms of related hazards		
Precautionary statements		
Prevention		
Keep only in original packagin Wash skin thoroughly after ha Wear protective gloves, protec		
Deenenee	Desperse	

#### **Response**

Absorb spillage to prevent material damage. 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 eye irritation persists: Get medical attention.

#### Storage

Store in a corrosive-resistant container or container with a resistant inner liner.

5. COMPOSITION/INFORMATION ON INGREDIENTS			
Chemical Nan	ne	CAS #	Weight %
2-Phosphono-1,2,4-butanetricarbox	xylic acid (PBTC)	37971-36-1	40–50
Non-hazardous substances	Non-hazardous substances		>50
4.	FIRST-AID MEASUR	RES	
Eye contact	Immediately flush eye 15 minutes, lifting low ensure complete rinsin and easy to do, then re immediately.	er and upper eyelids ng. Remove contact le	occasionally to enses if present
Skin contact	Immediately remove a copious amounts of v available. Wash conta	vater; use an emerg	ency shower if
Ingestion	If swallowed, DO NOT get emergency medica mouth unless instruct health care provider.	al attention. Do not g	ive anything by
Inhalation	If inhaled, move vict medical attention if br respiration if breathing	eathing is difficult; p	<b>.</b>
Note to health care provider	No specific information	n; treat symptomatica	ally.
5. FI	5. FIRE-FIGHTING MEASURES		
Suitable extinguishing media	Use extinguishing me fire.	dia appropriate for t	he surrounding
Unsuitable extinguishing media	No information availab	ble	
Protective equipment and precautions for firefighters	Stay upwind of the fire self-contained breathi water to cool closed possible.	ng apparatus should	l be used. Use
Specific hazards	Combustion may prod	uce toxic gases.	
Hazardous combustion products	Carbon oxides, sulfur	oxides	
6. ACCID	ENTAL RELEASE M	IEASURES	
Personal precautions	Evacuate the area of touch spilled material Ventilate the area and to do so. Avoid contac	without proper protect dimitigate further release	tive equipment.
Methods for clean-up			
Small spills	Contain spill and soak and place residues i disposal. Avoid discha	n a properly labele arge into sewer or su	d container for face water.
<u>Large spills</u>	Contain spill using tre inert material (i.e. san into recovery or salva disposal.	d or earth). Reclaim	spilled material

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# 7. HANDLING AND STORAGE

Advice on safe handling	Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Wash hands thoroughly after handling.
Storage conditions	Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers closed when not in use.
Suitable materials of construction	No information available
Unsuitable materials of construction	No information available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/face protection	Chemical splash goggles	
Skin protection	Chemical-resistant gloves and body-covering clothing	
Respiratory protection	Respiratory protection is not normally required. A respirator is recommended if significant mists, vapors, or aerosols are generated.	
Engineering controls	Adequate ventilation, eye-wash station, and emergency shower	
General hygiene considerations	Do not eat, drink, or smoke while handling this product. Wash hands thoroughly after handling.	

Chemical Name	OSHA PEL	ACGIH TLV
2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	None established	None established
Non-hazardous substances	None established	None established

# 9. PHYSICAL AND CHEMICAL PROPERTIES

рН	<2.0	
Appearance	Clear colorless to pale yellow liquid	
Odor	Mild	
Odor Threshold	No information available	
Melting/freezing point	5°F (-15°C)	
Initial boiling point/boiling	212°F (100°C)	
range		
Flash point	>212°F (100°C)	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Upper/lower flammability or explosive limits	No information available	
Vapor pressure	19.6 mbar @ 68°F (20°C); 107 mbar @ 122°F (50°C)	
Vapor density	No information available	
VOC content	50-55%	
Specific gravity	1.27-1.30	
Solubility	Miscible in water	

Partition coefficient	No information available	
n-octanol/water		
Auto-ignition temperature	>932°F (500°C)	
Decomposition temperature	>212°F (100°C)	
Viscosity	15-25 mPa*s @ 68°F (20°C)	

# **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	
Incompatibilities	Strong bases, oxidizers	
Hazardous decomposition products	No known non-thermal decomposition hazards.	

## **11. TOXICOLOGICAL INFORMATION**

Likely routes of exposure

Skin, eyes, ingestion

Acute toxicity

# 2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)

Parameter	Result
LD50, Oral (rat)	>4,000 mg/kg
LC50, Inhalation (rat)	1,979 mg/m³/4hr
Draize, Skin (rabbit)	Not irritating
Draize, Eye (rabbit)	Moderately irritating

## Acute symptoms and effects

Еуе	Eye irritation with or without pain, burning, itching, redness, and discharge.	
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.	
Inhalation	Upper respiratory irritation with or without cough, watering of the eyes, and postnasal drip.	
Reproductive effects	No information available	
Teratogenicity	Negative for teratogenicity	
Mutagenicity	Negative for mutagenicity	
Embryotoxicity	Negative for genotoxicity	
Sensitization to product	No information available	
Synergistic products	No information available	
Carcinogenicity	No components have been identified as carcinogenic by OSHA, NTP, or IARC.	
Chronic	No information available	

# **12. ECOLOGICAL INFORMATION**

#### Aquatic toxicity

Parameter	Result
48 hr LC50, Leuciscus idis	>500 mg/L
24 hr EC50, Daphnia magna	747 mg/L
48 hr LC0, Rainbow trout	3,440 mg/L
72 hr LC0, Leuciscus idus	>2,000 mg/L
14 day NOEC, Zebra fish	>1,042 mg/L
21 day LC50, Daphnia magna	>1,071 mg/L

Persistence	e Not readily biodegradable	
Bioaccumulative potential	No information available	
Mobility	No information available	

regulations.

#### **13. DISPOSAL CONSIDERATIONS**

Disposal

RCRA status

# RCRA Hazardous Waste.

Dispose of in accordance with federal, state, and local

Discarded product, as sold, would not be considered a

#### **14. TRANSPORT INFORMATION**

#### **US** Department of Transportation (DOT)

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	UN Number	UN3265	
	Proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (contains 2- Phosphono-1,2,4-butanetricarboxylic acid)	
	Primary hazard class/division	8	
	Secondary hazard	None	
	Packing group	III	
	Label	Corrosive	

#### **15. REGULATORY INFORMATION**

OSHA Hazard Communication Status	Corrosive to Metals, Category 1 Eye Irritation, Category 2A
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	Reportable Quantity (RQ)
2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	None
Non-hazardous substances	None

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

Section 302 Extreme	y Hazardous Substances (	(40 CFR 355)	)
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Chemical Name	CAS#	RQ	TPQ
None			

Immediate	Delayed	Fire	Pressure	Reactivity
Yes	No	No	No	No

#### Section 313 Toxic Chemicals (40 CFR 372)

Chemical Name	CAS Number	Percent by Weight
None		

	California Prop 65	
Chemical Name	CAS Number	Hazard
None		

	16. OTHER INFORMATION
HMIS Ratings	Health—1; Flammability—0; Reactivity—0
NFPA Ratings	Health—1; Flammability—0; Reactivity—0
HMIS/NFPA Rating Scale	Minimal—0; Slight—1; Moderate—2; Serious—3; Severe—4
SDS Issue Date	8/1/2023
Version	1

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