PORTACOOL

SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY INFORMATION

Product Name(s):	Portacool Hard Water Treatment		
Product Code(s):	MISR0022; PARPACHWTB00; PARPACHWTC00		
Uses:	This product is intended for scale control in evaporative coolers and related applications.		
Company:	Portacool, LLC		
Address:	709 Southview Cir.; Center, TX 75935; USA		
Telephone Number:	(936) 598-5651	Fax Number:	(936) 598-8901
Emergency Telephone Number:	ChemTel Inc. 1-(800) 255-3924; + 01 (813) 248-0585 (International)		
Date Issued:	January 11, 2016	Date Revised:	July 24, 2019

This SDS complies with the OSHA Hazard Communication Standard 29CFR1910.1200 as revised in May 2012 (GHS). It may not meet requirements in other countries.

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification:

DANGER

Eye Irritation (Category 1)
Skin Irritation (Category 2)
Aquatic Acute Toxicity (Category 3)
Aquatic Chronic Toxicity (Category 3)

GHS Hazard Statements:

Causes serious eye damage
Causes skin irritation
Harmful to aquatic life with long lasting effects

GHS Precautionary Statements:

Prevention:

Wash hands/skin thoroughly after handling.

Wear protective gloves/eye protection/face protection.

Avoid release to the environment.

Response:

Immediately call a poison center/doctor/hospital.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If on skin: Wash with plenty of water/soap.

Take off contaminated clothing and wash it before reuse.

Collect spillage.

Storage:

Store in corrosive resistant container with a resistant inner liner.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

GHS Assessment:

Approximately < 1% of this mixture consists of ingredient(s) of unknown acute toxicity.

Approximately < 5% of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment.

SECTION 3 COMPOSITION / INGREDIENTS

Component	CAS Number	EC Number	Concentration
Functional polymers	Proprietary	---	50.0 - 70.0%
Organic phosphonate	Proprietary	---	10.0 - 20.0%
Surfactant	Proprietary	---	10.0 - 20.0%

Trade Secret Claims: Specific chemical identity and/or exact percentage (concentration) of components has been withheld as a trade secret.

SECTION 4 FIRST AID MEASURES

First Aid - Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention, if irritation develops.

First Aid - Skin: In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately if irritation or rash develops and/or persists. Wash contaminated clothing before reuse.

First Aid - Ingestion: If swallowed and feel unwell, call a physician or poison control center. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

First Aid - Inhalation: If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Important Symptoms / Effects – Acute and Delayed: Tissue inflammation, tissue damage.

Advice to Physician: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media: Treat surrounding material. Water spray, dry chemical, carbon dioxide, or foam is recommended. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

Specific Hazards: This product is not flammable. This product may give rise to hazardous vapors in a fire. Vapors/fumes may be irritating, corrosive and/or toxic.

Protective equipment and procedures for fire-fighters: Wear full protective clothing and self-contained breathing apparatus.

Additional Advice: None.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill Procedures: Sweep up spilled material and transfer into suitable containers for recovery or disposal. Finally flush area with water.

Personal Precautions: Wear suitable protective clothing.

Environmental Precautions: See Section 12 for additional ecological information.

SECTION 7 HANDLING AND STORAGE

Handling:	Wear appropriate personal protection (See Section 8) when handling this material. The work area must be equipped with a safety shower and eye wash station. If exposed to the solution, avoid contact with skin and eyes. Wash thoroughly after handling solution.
Storage:	Keep container(s) tightly closed. Use and store this material at temperatures below 25ºC (77ºF) away from moisture, heat, direct sunlight and hot metal surfaces. Keep from freezing. Keep away from any incompatible materials (see Section 10).
Additional Advice:	Store in original container. Store as directed by the manufacturer.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Standards:	Exposure limits are listed below, if they exist.
Functional polymers:	(as Particulates not otherwise regulated) OSHA PEL: 15 mg/m3 TWA (total). OSHA PEL: 5 mg/m3 TWA (respirable fraction).
Organic phosphonate:	None.
Surfactant:	None.
Engineering Control Measures:	Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local exhaust), and control of process conditions.
Respiratory Protection:	A NIOSH certified self-contained breathing apparatus or air purifying respirator with a dust/organic cartridge may be used under conditions where airborne concentrations are expected to exceed exposure limits.
Hand Protection:	The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible irritation and skin damage (see glove manufacturer literature for information on permeability).
Eye Protection:	Approved eye protection (safety glasses with side-shields or goggles) to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.
Body Protection:	Impervious clothing should be worn as needed to prevent skin contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Color:	Brown
Odor:	Characteristic
Odor Threshold:	Not available.
pH:	Not available.
Melting Point/Range (ºC/ºF):	Not available.
Boiling Point/Range (ºC/ºF):	> 100ºC / > 212ºF
Flash Point (PMCC) (ºC/ºF):	> 94ºC / > 201.2ºF
Evaporation Rate:	Not available.
Flammability / Explosivity Limits in Air (%):	Not available.
Vapor Pressure:	Negligible
Vapor Density (Air = 1):	Not available.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Relative Density:	1.2 (23.8ºC)
Solubility in Water:	Partly soluble (> 45%)
Partition Coefficient:	Not available.
Autoignition Temperature (ºC/ºF):	Not available.
Decomposition Temperature (ºC/ºF):	Not available.
Viscosity:	Not available.
Explosive Properties:	None.
Oxidizing Properties:	None.
Volatile Organic Content (VOC) (g/l):	ca. 10-15 g/l (as defined by 40CFR51.100)

SECTION 10 STABILITY AND REACTIVITY

Reactivity:	Product will not undergo additional reaction.
Stability:	Stable under normal storage conditions.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Contact with incompatible materials, excessive heat, moisture.
Incompatibilities:	Oxidizing agents, strong bases.
Hazardous Decomposition Products:	Oxides of carbon, oxides of nitrogen, oxides of sulfur, oxides of phosphorus, oxides of silicon, amines, aliphatic compounds, toxic by-products.

SECTION 11 TOXICOLOGICAL INFORMATION

If available, toxicity data for the product is given; otherwise component data is listed.

Acute Toxicity:	This product is not expected to be appreciably toxic. (Functional polymers) Oral acute toxicity estimate (ATE) > 3500 mg/kg; Dermal acute toxicity estimate (ATE) > 2500 mg/kg (estimated from polymer data and analogous polymer values) (Organic phosphonate) Oral LD50 (rat) > 6500 mg/kg; Dermal LD50 (rat) > 4000 mg/kg; Inhalation LC50 (rat) > 1979 mg/m3 (4 hr) (aerosol) (no mortality) (Surfactant) Oral LD50 (rat) 1720 - 2740 mg/kg
Skin Corrosion / Irritation:	The product may be irritating to the skin. (Functional polymers) Moderately irritating to skin (estimated from rabbit data and data for analogous polymer). (Organic phosphonate) Non-irritating to skin (reconstructed human epidermis). (Surfactant) May cause skin irritation.
Serious Eye Damage / Irritation:	The product may be severely irritating to the eyes with possible damage. (Functional polymers) Irritating to eye (estimated from rabbit data and data for analogous polymer). (Organic phosphonate) Irritating to eye (human epithelial corneal cell model). (Surfactant) May cause damage to eyes.
Respiratory or Skin Sensitization:	The product is not expected to be dermally sensitizing. (Functional polymers) Not dermally sensitizing (guinea pig) (analogous polymer and data). (Organic phosphonate) Not dermally sensitizing (guinea pig). (Surfactant) No data.

SECTION 11 TOXICOLOGICAL INFORMATION

Mutagenicity:	This product is not expected to be mutagenic. (Functional polymers) Not mutagenic (Ames test system - analogous polymer and data). (Organic phosphonate) Not mutagenic (Ames test, in vitro mammalian chromosome aberration test and forward mutation assay). (Surfactant) No data.
Carcinogenicity:	This product is not expected to be carcinogenic. (Functional polymers) No data. (Organic phosphonate) No data. (Surfactant) No data.
Reproductive / Developmental Toxicity:	This product is not expected to be developmentally harmful. (Functional polymers) No data. (Organic phosphonate) In an oral study with rats during pregnancy, there were no significant effects on maternal toxicity and fetal development at up to 1000 mg/kg/day (NOEL was 1000 mg/kg/day). (Surfactant) No data.
Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Single Exposure:	(Functional polymers) High exposures may cause kidney effects (analogous polymer and data). (Organic phosphonate) No data. (Surfactant) No data.
Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Repeated Exposure:	(Functional polymers) No data. (Organic phosphonate) In a 90-day oral study in rats, there were no significant effects observed up to 5000 ppm of the salt. (Surfactant) No data.
Aspiration Hazard:	This product is not expected to be an aspiration hazard.
Additional Information:	None.

SECTION 12 ECOLOGICAL INFORMATION

If available, ecological data for the product is given; otherwise component data is listed.

Acute Ecotoxicity:	This product may be harmful to aquatic species. (Functional polymers) LC50 (fathead minnow & Rainbow trout) > 550 mg/l/96h; EC50 (Daphnia magna) > 520 mg/l/48h; EC50 (algae) > 50 mg/l/ 96 hr (analogous polymer and data). (Organic phosphonate) LC50 (Zebra fish) > 1042 mg/l/96 hr; EC50 (Daphnia magna) > 1071 mg/l/48 hr; EC50 (green algae) > 1081 mg/l/72 hr. (Surfactant) LC50 (fish) 78.86 mg/l/96 hr; EC50 (Daphnia) 73.55 mg/l/48 hr; EC50 (algae) 2.68 mg/l/72 hr.
Mobility:	(Functional polymers) No data. (Organic phosphonate) No data. (Surfactant) No data.
Persistence/Degradability:	(Functional polymers) Not readily biodegradable. Degradation may be slow or negligible. (Organic phosphonate) Not readily biodegradable (17% in 28 days). (Surfactant) Readily biodegradable.
Bioaccumulation:	(Functional polymers) No data. (Organic phosphonate) No data. (Surfactant) No data.
Other adverse effects:	None.

SECTION 13 DISPOSAL CONSIDERATION

Environmental precautions:	See Section 12 for additional ecological information.
Product Disposal:	Dispose in accordance with all local, state (provincial), and federal regulations. Under RCRA, it is the responsibility of the product's user to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because the product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.
Container Disposal:	Do not remove label until container is thoroughly cleaned. Empty containers may contain hazardous residues. This material and its container must be disposed of in a safe way.

SECTION 14 TRANSPORT INFORMATION

DOT Proper Shipping Name:	Not Regulated
UN Number:	None.
UN Class:	None.
UN Packaging Group:	None.
Reportable Quantity:	None.
Marine Pollutant:	None.

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Consult current IATA Regulations prior to shipping by air.

SECTION 15 REGULATORY INFORMATION

US Toxic Substance Control Act:	All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
Canadian Domestic Substance List:	One or more component(s) of this product are not listed on the Canadian Domestic List. Limited quantities may be permitted.
EU Existing Inventory of Chemical Substances:	One or more component(s) of this product are not in compliance with the inventory listing requirements of the E.U. Existing Inventory of Chemical Substances (EINECS). One or more component(s) of this product have not been pre-listed under REACh. Limited quantities may be permitted.
TSCA Sec.12(b) Export Notification:	This product does not contain a chemical at or above de minimis concentrations which requires reporting.
Canadian WHMIS Classification:	D.2.B This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.
Massachusetts Right-To-Know:	This product does not contain materials subject to disclosure under the Massachusetts Right-To-Know Law.
New Jersey Right-To-Know:	This product does not contain materials subject to disclosure under the New Jersey Right-To-Know Law.
Pennsylvania Right-To-Know:	This product does not contain materials subject to disclosure under the Pennsylvania Right-To-Know Law.
California Proposition 65:	This product contains materials which the State of California has found to cause cancer, birth defects or other reproductive harm: - Dioxane, 1.4- (< 0.002%) - Acetaldehyde (< 0.002%)

SECTION 15 REGULATORY INFORMATION

- Ethylene oxide (< 0.002%)
- Methanol (< 0.002%)
- Trace cobalt, cadmium, arsenic, nickel, mercury, lead (< 16 ppb total)

SARA TITLE III-Section 311/312 Categorization (40 CFR 370):	Immediate (acute) hazard (as of 2018, the EPA has adopted GHS hazard classifications)
SARA TITLE III-Section 313 (40 CFR 372):	This product does not contain materials which are listed in Section 313 at or above de minimis concentrations.
CERCLA Hazardous Substance (40 CFR 302)	This product does not contain materials subject to reporting under CERCLA and Section 304 of EPCRA.
Water Hazard Class (WGK):	This product is water-endangering (WGK=2).

Other Chemical Inventories:		
	Australia (AICS):	One or more component(s) not listed.
	China (IECSC):	One or more component(s) not listed.
	Japan (ENCS):	One or more component(s) not listed.
	Korea (KCI):	One or more component(s) not listed.
	Philippines (PICCS):	One or more component(s) not listed.

SECTION 16 OTHER INFORMATION

NFPA Rating - HEALTH:	3
NFPA Rating - FIRE:	1
NFPA Rating - REACTIVITY:	0
NFPA Rating - SPECIAL:	NONE
SDS Date Issued:	January 11, 2016
SDS Current Version:	2.2 Version Date: July 24, 2019
SDS Revision History:	v1.0 Initial version. v1.1 Address change and fax number addition (Section 1). v2.0 Updated SDS for revised formula. v2.1 Updated SDS for revised formula. v2.2 Revised “Environmental precautions” (Sections 6 & 13) to avoid confusion for residential use of time-released product.

Abbreviations:

GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
CAS#:	Chemical Abstract Services Number
ACGIH:	American Conference of Governmental Industrial Hygienists
OSHA:	Occupational Safety and Health Administration
NFPA:	National Fire Protection Association
DOT:	US Department of Transportation
RCRA:	US Resource Conservation and Recovery Act
TLV:	Threshold Limit Value
TWA:	Time-Weighted Average
PEL:	Permissible Exposure Limit
STEL:	Short Term Exposure Limit
WEEL:	Workplace Environmental Exposure Levels
AIHA:	American Industrial Hygiene Association
NTP:	National Toxicology Program
IARC:	International Agency for Research on Cancer
R:	Risk
S:	Safety
LD50:	Lethal Dose 50%
LC50:	Lethal Concentration 50%

SECTION 16 OTHER INFORMATION

EC50: Effective Concentration 50%
BCF Bioconcentration Factor
BOD: Biological Oxygen Demand
Koc: Soil Organic Carbon Partition Coefficient.
Tlm: Median Tolerance Limit

Key References:

United States National Library of Medicine's TOXNET
Patty's Toxicology, 5th Edition
European Commission's Institute for Health and Consumer Protection
American Conference of Governmental Industrial Hygienists
International Agency for Research on Cancer
United States National Toxicology Program
United States Occupational Safety and Health Administration
United States Department of Transportation
Supplier Material Safety Data Sheets

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