MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION

Product identifier: EMERGE **Product code:** CRY-021042

Product use: Pool and Spa Water Treatment

Trade Name and Synonyms: Potassium Monopersulphate

Chemical Family: Not Applicable Chemical Name: Not Applicable Molecular Weight: Not Applicable Chemical Formula: Proprietary Blend WHMIS classification: D2B, D2A

Supplier name and address:

Crystal Clear Pool and Spa 1200 Corporate Drive Burlington, Ontario, Canada

L7L 5R6

Emergency Telephone #: 1-800-263-8250

SECTION 2 - CHEMICAL COMPOSITION/HAZARDOUS INGREDIENTS

<u>Ingredients</u>	CAS#	Approx. Conc. %	LD 50 Specify Species and Route (Oral, RAT)	LC 50 Specify Series and Route (Inhal., RAT)
Potassium Peroxymonno Sulphate	10058-23-8	10-30	Not Available	Not Available
Potassium Bisulphate	7646-93-7	10-30	Not Available	Not Available
Potassium Sulphate	7778-80-5	10-30	Not Available	Not Available
Magnesium Carbonate	546-93-0	1-5	Not Available	Not Available
Potassium Peroxydisulphate	7727-21-1	1-5	Not Available	Not Available
Disodium Tetraborate	1330434	10-30	Not Available	Not Available

SECTION 3 – PHYSICAL DATA FOR MATERIAL Physical State: GAS ____ LIQUID _____ SOLID X **Evaporation Rate:** Not Applicable Vapour Density (AIR-1): Not Applicable Odour Threshold (P.P.M): Not Applicable **Boiling Point (degrees C):** Not Applicable Specific Gravity: Not Applicable Freezing Point degrees C): Decomposes Vapour Pressure (MM): Not Applicable **pH:** 6.7 (1% solution) Solubility in Water (20C): soluble % Volatile (by weight): Not Applicable Coefficient of Water/Oil Distribution: Not Available **Odour and Appearance:** White, granular, opaque, odourless SECTION 4 – FIRE AND EXPLOSION HAZARD OF MATERIAL Flammability: Yes No X If ves, under which conditions?: Not Applicable **NOTE:** Grinding or intense mixing may cause ignition or oxidizable material present. **Auto-ignition Temperature (deg. C):** Not Applicable **Upper Explosion Limit (% by Volume):** Not Applicable Means of Extinction: Use media to extinguish source of fire **Special Procedures:** Wear self contained breathing apparatus when fire fighting: Lower Explosion Limit (% by volume): Not Applicable Flashpoint (deg. C) and Method: Not Applicable Hazardous Combustion Products: Not Applicable **SECTION 5 – EXPLOSION DATA Sensitivity to Mechanical Impact:** None **Sensitivity to Static Discharge:** None **SECTION 6 – REACTIVITY DATA** Chemical Stability: Yes X No If no, under what conditions?: Not applicable. **Incompatibility to Other Substances: Yes** X No If so, which ones?: This product is an oxidizer. When mixed with halides (chlorine, bromine) or compounds containing halides it will release the respective halogen gas. **Examples:** Mixture of this product and salt will emit chlorine gas. Mixture with cyanides can release hydrogen cyanide gas. Heavy metal salts such as cobalt, nickel and copper can cause the evolution of oxygen. Elemental Zirconium. Reactivity and under what conditions: See above Hazardous Decomposition Products: Releases oxygen gas

SECTION 7 – TOXICOLOGICAL PROPERTIES OF MATERIAL **Route of Entry:** Skin Absorption____ Skin Contact: X Eye Contact: X **Inhalation Chronic: Ingestion:** X **Inhalation Acute:** EFFECTS OF ACUTE EXPOSURE TO MATERIAL: Skin: Skin contact may cause irritation and burns **Eve:** Eve contact may cause irritation and burns **Inhalation:** Will cause irritation of mucosal membrane and respiratory passages. Mucus **Ingestion:** Gastritis possibly progressing to necrosis or haemorrhage. Product is toxic by ingestion. **Effects of Chronic Exposure to material:** None Known **Other Health Effects:** None Known LD 50 of Material (Specify Species and Routes): See Section II LD 50 of Material (Specify Series and Routes): See Section II Exposure (Limits): OSHA PEL particulates not otherwise classified: 15 mg/m3, 8hr TWA Total Dust: 5 mg/m3, 8 hr, TWA respirable dust. Potassium Peroxydisulphate TLU (ACGIH) 0.1 mg/m3, 8 hr. TWA. Sodium Tetraborate – Decahydrate – TWAEV 5 mg/m3 Irritancy of Material: Skin, eyes, nose and throat Sensitisation of Material: None Known **Synergistic Materials:** None Known Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None Known SECTION 8 – PREVENTATIVE MEASURES PERSONAL PROTECTIVE EQUIPMENT Gloves (specify): Latex or rubber gloves if prolonged skin contact is likely. Eye (specify): Safety Glasses / goggles if eye contact is likely. **Respiratory** (specify): NIOSH / MSHA air purifying respirator if prolonged use in non-ventilated area is avoidable. **Other (specify):** Impervious clothing if contact is likely. Engineering controls (i.e.: ventilation, enclosed process – specify): Use in well-ventilated area. Local ventilation may be required to keep particulates below OSHA-PEL. Leak and Spill Procedure: Sweep up and collect in metal container. Flush residue with water. Waste Disposal: Dispose material in accordance with Federal, Provincial/State and local government regulations. Handling Procedures and Equipments: Avoid contact with eyes, skin and clothing. Avoid breathing dust. Wash thoroughly after handling. Storage Requirements: Store in cool, dry area. Do not mix directly with other chemicals. Do not store with combustible materials. **Special Shipping Information: Transportation:** Not Regulated Class: P.I.N./UN:

Pkg. Group:

SECTION 9 – FIRST AID MEASURES

Skin: Wash thoroughly with soap and water. Flush with water for 15 minutes. Seek medical attention.

Eye: Flush eyes with plenty of water for 15 minutes. Seek medial attention.

Inhalation: Remove person to fresh air. Give artificial respiration if required. Seek medical attention.

Ingestion: Drink large quantities of water to dilute and contact a physician and induce vomiting.

SECTION 10 - PREPARATION DATE OF M.S.D.S.

Prepared by: Crystal Clear Pool and Spa

Telephone Number: 1-800-263-8250

Preparation Date: September 22, 2000 Date of Latest Revision / Review: February 1, 2018

ADDITIONAL NOTES OR REFERENCES:

While Crystal Clear Pool and Spa believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Crystal Clear Pool and Spa assumes legal responsibility. They are offered solely for your consideration, and verification. Any use of this data and information must be determined by the user in accordance with applicable Federal, Provincial/State and local laws and regulations.