SAFETY DATA SHEET

This Safety Data Sheet (SDS) complies with the requirements of the American National Standards Institute (Z400.1, 1998), U.S. Federal Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200), and equivalent state Standards. It has also been developed in accordance with the Canadian Workplace Hazardous Materials Standard and the United Nations Globally Harmonized System of Classification of Chemicals. Refer to Section 16 of this document for the definition of terms and abbreviations.

1. PRODUCT IDENTIFICATION

PRODUCT:	**DRINKING WATER FRESHENER**
OTHER IDENTIFIERS:	EZ-RV Drink Water Fresh, Specialty Chemical
PRODUCT CODE/VOLUME:	V88459/12 OUNCES
PRODUCT USE:	Drinking Water Freshener
USES ADVISED AGAINST:	Any off-label use
MANUFACTURER/ SUPPLIER/DISTRIBUTOR:	**Valterra Products, LLC**
ADDRESS:	15230 San Fernando Mission Blvd.; Suite 107 Mission Hills, CA 91345
BUSINESS PHONE #:	818-898-1671
EMERGENCY PHONE #:	CHEMTEC:1-800-255-3924; 1-703-527-3887

These products are sold to consumers in containers of relatively small volume. This SDS has been developed to address safety concerns affecting those individuals working in warehouses and other places where large numbers of these containers are stored, as well as those affecting potential users of this product in industrial/occupational or manufacturing settings.

2. HAZARD IDENTIFICATION

GLOBALLY HARMONIZED SYSTEM (GHS) REVIEW:

GHS HAZARD CLASSIFICATION: Eye damage/Irritation (Category 1); Acute Oral Toxicity (Category 4); Oxidizing Solids (Category 3); Skin Corrosion/Irritation (Category 2)

LABELING:

- **Pictogram:** See above.
- **Signal Word:** DANGER!
- **Hazard Statement:** H272: May intensify fire; oxidizer. H302: Harmful if swallowed. H318: Causes serious eye damage. H315: Causes skin irritation.
- **Precautionary Statements:**
  - PREVENTION: P210: Keep away from heat. P220: Keep/Store away from clothing/combustible materials. P221: Take any precaution to avoid mixing with combustibles. P264: Wash all exposed skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P280: Wear protective gloves and eye protection.
  - RESPONSE: P301 + P312 + P330. IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. 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. P302 + P352 IF ON SKIN: Wash with plenty of water. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P370 + P378: In case of fire: Use Water Spray, Carbon Dioxide, Dry Chemical, or Foam extinguisher.
  - DISPOSAL: P501: Dispose of in accordance with local/regional regulations.

2. HAZARD IDENTIFICATION (Continued)

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

Health	**2**
Flammability	**0**
Physical Hazard	**1**
Protective Equipment	**B**

HMIS Personal Protective Equipment Rating:
Occupational Use situations: B - Safety glasses and gloves

HAZARDOUS NOT OTHERWISE CLASSIFIED:

- **Aquatic Toxicity Classification:** Not classified.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	GHS HAZARD CLASSIFICATION	W/W%
Sodium Bicarbonate	144-55-8	Not classified as hazardous.	60-80
Sodium Percarbonate	15630-89-4	Oxidizing solids (Category 2), Acute toxicity, Oral (Category 4), Serious eye damage (Category 1)	20-40

4. FIRST AID MEASURES

FIRST AID:

- **Eyes:** Hold contaminated eyes open and flush with copious amounts of water for 15 minutes. "Roll" eyes during flush. Seek medical attention immediately.
- **Skin:** Flush area with warm, running water. Continue rinsing with water for at least 15 minutes, if any evidence of redness or irritation occurs. Seek medical attention if skin irritation persists.
- **Inhalation:** Obtain fresh air. If necessary, blow nose.
- **Ingestion:** This product is intended for use in purifying drinking water. If it is accidentally ingested, rinse mouth. Contact professional medical personnel or the local poison control center for additional guidance.

ACUTE HEALTH EFFECTS:

- **Eyes:** Causes serious eye damage. There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.
- **Skin:** Causes skin irritation.
- **Inhalation:** May cause irritation of membranes of nose, mouth, or throat if dusts or particulates are inhaled.
- **Ingestion:** This product is intended for use in purifying drinking water. In the event the concentrated product is swallowed, irritation of the nose, throat, and digestive tract can occur. Ingestion of significant quantities may cause nausea, vomiting, and diarrhea.

CHRONIC HEALTH EFFECTS: None reported

TARGET ORGANS: Skin, eyes

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate overexposure.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: None reported

5. FIRE-FIGHTING MEASURES

NFPA FLAMMABILITY CLASSIFICATION: Oxidizer (Class 1). See symbol to right.

RECOMMENDED FIRE EXTINGUISHING MEDIA: Water Spray, Dry Powder, Foam, Carbon Dioxide, or any other.

UNSUITABLE FIRE EXTINGUISHING MEDIA: None known.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: None reported.

5. FIRE-FIGHTING MEASURES (Continued)

UNUSUAL HAZARDS IN FIRE SITUATIONS: When involved in a fire, this material may produce irritating vapors and toxic gases (e.g., carbon oxides and sodium compounds). In a fire situation, product can also release oxygen, which can increase intensity of fire.

RECOMMENDATIONS TO FIREFIGHTERS: Wear Self Contained Breathing Apparatus and full protective equipment for fire response. Move containers from fire area if it can be done without risk to personnel. Contaminated equipment should be rinsed thoroughly with water before returning to service.

6. ACCIDENTAL RELEASE MEASURES

RESPONSE TO INCIDENTAL RELEASES: Wear gloves and safety glasses when cleaning-up spills. Use caution during clean-up, to avoid generating and spreading dusts and particulates.

RESPONSE TO NON-INCIDENTAL RELEASES: As needed, respond to non-incidental chemical releases of this product (such as the simultaneous destruction of several pallets) by evacuating the impacted area and contacting appropriate emergency personnel.

- **Specific Procedures:** In the unlikely event of a multi-container release of the product**,** with no other hazardous condition in the area, the use of an air-purifying respirator with high efficiency particulate air filter, face-shield, safety glasses, and double gloves (e.g. nitrile over latex gloves), and body protection is recommended if dusts/particulates could be generated during clean-up.

RESPONSE PROCEDURES FOR ANY RELEASE: Clean-up spilled solid with a broom/dustpan**.** Use a damp sponge/polypad to carefully cleanse the contaminated area or items. If appropriate, further clean the contaminated area and equipment with a soap and water solution, followed by a water rinse.

SPILL RESPONSE EQUIPMENT: Broom and dustpan**.** Polypad or other absorbent material, if needed.

ENVIRONMENTAL PRECAUTIONS: Avoid response actions that can cause a release of a significant amount of the substance into the environment.

REFERENCES TO OTHER SECTIONS:

- See Section 8 (Exposure Controls/Personal Protection) for personal protective equipment recommendations.
- See Section 13 (Disposal Recommendations) for information on waste disposal.

7. HANDLING AND STORAGE

HYGIENE PRACTICES: Keep out of reach of children**.** Do not smoke, drink, eat, or apply cosmetics in the chemical use area. Avoid inhalation of dusts and particulates. Use in well-ventilated area. Avoid contact with skin or eyes. Remove contaminated clothing promptly. Clean up any spilled product immediately.

HANDLING RECOMMENDATIONS: Minimize dust/particulate generation when handling.

INCOMPATIBILITIES: See Section 10 (Stability and Reactivity).

STORAGE RECOMMENDATIONS: Ensure all containers are correctly labeled. Store container in cool, dry place away from direct sunlight, sources of intense heat, or where freezing is possible. Store this product away from incompatible chemicals (See Section 10, Stability and Reactivity).

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures).

SPECIFIC END USES: Drinking water freshener.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

U.S. NATIONAL EXPOSURE LIMITS: There are no specific airborne exposure limits for the components listed in Section 3. The following limits are recommended for Particulates Not Otherwise Classified.

COMPONENT	ACGIH TLV	OSHA PEL	NIOSH REL	OTHER
Product (Particulates Not Otherwise Classified)	TWA = 3mg/m^3 (Respirable Particles); 5 mg/m^3 (Inhalable Particles))	TWA = 15 mg/m^3 (Total Dust); 5 mg/m^3 (Respirable Fraction)	NE	NE

BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS: Not established.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION (Continued)

ENGINEERING CONTROLS: Use this product in well-ventilated environment. Ensure eye-wash stations are readily available.

RESPIRATORY PROTECTION: None needed under routine circumstances of use.

HAND PROTECTION: Rubber, latex, or neoprene gloves should be used when contact is anticipated.

EYE PROTECTION: Splash goggles or safety glasses with side shield are recommended if there is a potential for dusts/particulate contact with the eyes.

BODY PROTECTION: None needed under typical situations of use or handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid
COLOR: White
ODOR: None
pH: Not determined
BOILING POINT: Not applicable
MELTING POINT: > 300 °C (572 °F)
REFRACTIVE INDEX: Not applicable
VISCOCITY: Not applicable
FLASH POINT: Not applicable
LOWER EXPLOSIVE LIMIT (LEL): Not applicable
UPPER EXPLOSIVE LIMIT (UEL): Not applicable
AUTOIGNITION TEMPERATURE: Not applicable

VAPOR PRESSURE: Not determined
VAPOR DENSITY (air = 1): Not determined
RELATIVE DENSITY (water = 1): 0.9 – 1.2
EVAPORATION RATE (water = 1): Not applicable
COEFFICIENT OIL/WATER DISTRIBUTION (PARTITION COEFFICENT): Not determined
SOLUBILITY: 100% soluble in water
EXPLOSIVE PROPERTIES: Not applicable
OXIDIZING PROPERTIES: NFPA Class 1 Oxidizer
VOLATILE ORGANIC COMPOUNDS: Not determined

10. STABILITY AND REACTIVITY

RELATIVE STABILITY (AT STANDARD TEMPERATURES AND PRESSURES): Normally stable.

INCOMPATIBILITIES: Acids, bases, combustible materials, organic materials, reducing agents, moisture, flammable materials, and permanganates.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS CHEMICAL DECOMPOSITION PRODUCTS: Products of thermal decomposition can include carbon oxides, sodium compounds, and oxygen.

CONDITIONS TO AVOID: Avoid dust formation. Avoid exposure to heat and contact with incompatible materials.

11. TOXICOLOGY INFORMATION

ACUTE TOXICITY:

- **PRODUCT ACUTE TOXICITY ESTIMATES:**
  ATE (Oral): Between 300 and 2000 mg/kg
  ATE (Dermal) >2000 mg/kg
- **COMPONENT TOXICOLOGY DATA:** The following data is available for components of this product.

SODIUM BICARBONATE
LD50 (oral, rat) = 4220 mg/kg

SODIUM PERCARBONATE
LD50 (oral, rat) = 1034 mg/kg
LC50 (dermal, rabbit) >2000 mg/kg

- **DEGREE OF IRRITATION:** Causes serious eye damage. Causes skin irritation. See Section 4 (First Aid Measures) for more details.
- **SENSITIZATION:** The components of this product are not reported to have skin or respiratory sensitization effects.
- **REVIEW OF ACUTE SYMPTOMS AND EFFECTS BY ROUTE OF EXPOSURE:** See Section 2 (Hazards Information) and Section 4 (First Aid Measures) for additional details.

Eyes	Causes serious eye damage.
Skin	Causes skin irritation.
Inhalation	May cause irritation of membranes of nose, mouth, or throat if dusts or particulates are inhaled.
Ingestion	This product is intended for use in purifying drinking water. In the event the concentrated product is swallowed, irritation of the nose, throat, and digestive tract can occur.

11. TOXICOLOGY INFORMATION (Continued)

CHRONIC TOXICITY:

- **CARCINOGENICITY STATUS:** The following table summarizes the carcinogenicity listing for the components of this product. "NO" indicates that the substance is not considered to be, or suspected to be, a carcinogen by the listed agency.

CHEMICAL	IARC	NTP	NIOSH	OSHA	OTHER
Sodium Bicarbonate	NO	NO	NO	NO	NO
Sodium Percarbonate	NO	NO	NO	NO	NO

- **REPRODUCTIVE TOXICITY INFORMATION:** This product is not known to cause any adverse effect on the human reproductive system.
- **TOXICOLOGY DATA:** No data is available for components of this product present in greater than one percent concentration.
- **TOXICOLOGICALLY SYNERGISTIC PRODUCTS:** None known.
- **MUTAGENIC EFFECTS:** Not applicable.
- **SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE:** Not applicable.
- **SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE:** Not applicable.
- **ASPIRATION HAZARD**: Not applicable.

12. ECOLOGICAL INFORMATION

TOXICITY TO TERRESTRIAL LIFE: Based on available data, this product may be harmful to contaminated plants or animals. Prudent practice would be to minimize all releases to the environment.

TOXICITY TO AQUATIC LIFE: Based on available data, this product may be harmful to aquatic life. Prudent practice would be to minimize all releases to the environment.

COMPONENT AQUATIC TOXICITY DATA: The following data is available for components of this product.

SODIUM PERCARBONATE
LC50 - Pimephales promelas (fathead minnow) - 70.7 mg/L - 96 hours
EC0 - Daphnia magna (Water flea) - 2 mg/L - 48 hours
EC50 - Daphnia magna (Water flea) - 4.9 mg/L - 48 hours

MOBILITY, PERSISTENCE, AND DEGRADABILITY: This product's components are soluble; therefore, it will be mobile in soil.

BIOACCUMULATION AND BIOCONCENTRATION POTENTIAL: It is not anticipated that this product will bioaccumulate or bioconcentrate significantly in the environment.

13. DISPOSAL CONSIDERATIONS

WASTE HANDLING RECOMMENDATIONS: Prepare, transport, treat, store, and dispose of waste product according to all applicable local, U.S. State and U.S. Federal regulations, or the applicable Canadian regulations.

EPA RCRA WASTE CODE: D001, for wastes consisting only of this product.

14. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIALS SHIPPING REGULATIONS:

PROPER SHIPPING NAME: Oxidizing solid, n.o.s. (sodium percarbonate)
HAZARD CLASSIFICATION: 5.1
UN/NA IDENTIFICATION NUMBER: UN1479
PACKING GROUP: III
LABEL: 5.1 (Oxidizer)

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK (2016): Guide Number 140

U.S. LIMITED COMMODITY/CONSUMER COMMODITY EXCEPTION: This product is shipped as a Consumer Commodity/Limited Quantity, per 49CFR §173.152.

14. TRANSPORT INFORMATION (Continued)

OTHER PERTINENT TRANSPORTATION REGULATIONS:

MARINE POLLUTANT STATUS: This product is not classified as a Marine Pollutant.

CANADIAN TRANSPORTATION INFORMATION: This product is regulated by Transport Canada as dangerous goods under Canadian transportation standards. See previous information for shipping classification.

IATA DESIGNATION: This product is regulated as dangerous goods by the International Air Transport Association. See previous information for shipping classification.

IMO DESIGNATION: This product is regulated as dangerous goods by the International Maritime Organization. See previous information for shipping classification.

15. REGULATORY INFORMATION

OTHER IMPORTANT U.S. REGULATIONS

CERCLA REPORTING REQUIREMENTS: Not applicable.

SARA REPORTING REQUIREMENTS: The following reporting requirements are applicable to the components of this product:

CHEMICAL	SECTION 302 (40 CFR 355 Appendix A)	SECTION 304 (40 CFR Table 302.4)	SECTION 313 (40 CFR 372.65)
Sodium Bicarbonate	NO	NO	NO
Sodium Percarbonate	NO	NO	NO

SARA SECTION 311/312 FOR PRODUCT: Eye damage/Irritation; Acute Oral Toxicity; Oxidizing Solids; Skin Corrosion/Irritation.

TSCA INVENTORY STATUS: All components of this product are listed on the TSCA Inventory.

CALIFORNIA SAFE DRINKING WATER ACT (PROPOSITION 65) STATUS:

WARNING: This product can expose you to a trace amount of ethylene oxide, a chemical known to the state of California to cause cancer, birth defects, and other reproductive harm. For more information, go to **www.p65Warnings.ca.gov**

INTERNATIONAL REGULATIONS

CANADIAN DSL/NDSL INVENTORY STATUS: The listed components of this product are on the DSL/NDSL Inventory.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITY SUBSTANCES LISTS: The components of this product are not on the Canadian Environmental Protection Act Priorities Substances Lists.

CANADIAN WHMIS CLASSIFICATION: See section 2.

16. OTHER INFORMATION

DATE/ SDS PREPARATION: April 11, 2019

DATE/ SDS REVISION: December 20, 2015

CHANGE INDICATED: Reformatting of information; review and update of regulatory information.

DEFINITION OF TERMS AND ABBREVIATIONS:

- **ALL SECTIONS:** OSHA: U.S. Federal Occupational Safety and Health Administration. WHMIS: Canadian Workplace Hazardous Materials Standard. GHS: Globally Harmonized System of Classification of Chemical Substances.
- **SECTION 2:** HAZARDOUS MATERIALS IDENTIFICATION SYSTEM RATING: This is a rating system used by industry to summarize physical and health hazards to chemical users and was originally developed by the National Paint and Coating Association. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.
- **SECTION 3:** CAS Number: Chemical Abstract Service Number, which is used by the American Chemical Society to uniquely identify a chemical.

16. OTHER INFORMATION (Continued)

- **SECTION 5:** NFPA: National Fire Protection Association. NFPA FLAMMABILITY CLASSIFICATION: The NFPA uses the flash point (Fl.P.) and boiling point (BP) to classify flammable or combustible liquids. Class IA: Fl.P. below 73°F and BP below 100°F. Class IB: Fl.P. below 73°F and BP at or above 100°F. Class IC: Fl.P. at or above 73°F and BP at or above 100°F. Class II: Fl.P. at or above 100°F and below 140°F. Class IIIA: Fl.P. at or above 140°F and below 200°F. Class IIIB: Fl.P. at or above 200°F. NFPA HAZARDOUS MATERIALS RATING: This is a rating system used to summarize physical and health hazards to firefighters. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.
- **SECTION 8:** NE: Not established. ACGIH: American Conference of Government Industrial Hygienists; TWA: Time-Weighted Average (over an 8-hour work day); STEL: Short-Term Exposure Limit (15-minute average, no more than 4-times daily and each exposure separated by one-hour minimally); C: Ceiling Limit (concentration not to be exceeded in a work environment). PEL: Permissible Exposure Limit. NIOSH: National Institute of Occupational Safety and Health; REL: Recommended Exposure Limit; IDLH: Immediately Dangerous to Life and Health Concentrations. *Note*: In July 1992, a court ruling vacated the more protective PELs set by OSHA in 1989. Because OSHA may enforce the more protective levels under the "general duty clause", both the current and vacated levels are presented in this document. ppm: Parts per Million. mg/m^3: Milligrams per cubic meter. mppcf: Millions of Particles per Cubic Foot. BEI: Biological Exposure Limit.
- **SECTION 9:** pH: Scale (0 to 14) used to rate the acidity or alkalinity of aqueous solutions. For example, a pH value of 0 indicates a strongly acidic solution, pH of 7 indicates a neutral solution, and a pH value of 14 indicates an extremely basic solution. FLASH POINT: Temperature at which a liquid generates enough flammable vapors so that ignition may occur. AUTOIGNITION TEMPERATURE: Temperature at which spontaneous ignition occurs. LOWER EXPLOSIVE LIMIT (LEL): The minimal concentration of flammable vapors in air which will sustain ignition. UPPER EXPLOSIVE LIMIT (UEL): The maximum concentration of flammable vapors in air which will sustain ignition.
- **SECTION 11:** CARCINOGENICITY STATUS: NTP: National Toxicology Program. IARC: International Agency for Research on Cancer. REPRODUCTIVE TOXICITY INFORMATION: Mutagen: Substance capable of causing chromosomal damage to cells. Embryotoxin: Substance capable of damaging the developing embryo in an overexposed female. Teratogen: Substance capable of damaging the developing fetus in an overexposed female. Reproductive toxin: Substance capable of adversely affecting male or female reproductive organs or functions. TOXICOLOGY DATA: LD*xx* or LC*xx*: The Lethal Dose or Lethal Concentration of a substance which will be fatal to a given percentage (*xx*) of exposed test animals by the designate route of administration. This value is used to assess the toxicity of chemical substances to humans. TD*xx* or TC*xx*: The Toxic Dose or Toxic Concentration of a substance which will cause an adverse effect to a given percentage (*xx*) of exposed test animals by the designate route of administration.
- **SECTION 13:** RCRA: Resource Conservation and Recovery Act. The regulations promulgated under this act under Act are found in 40 CFR, Sections 260 ff, and define the requirements of hazardous waste generation, transport, treatment, storage, and disposal. EPA RCRA Waste Codes: Defined in 40 CFR Section 261.
- **SECTION 15:** CERCLA: Comprehensive Environmental Response Compensation and Liability Act (a.k.a. "Superfund") and SARA: (Superfund Amendment and Reauthorization Act). TSCA: Toxic Substances Control Act. The regulations promulgated under this Act are located under 40 CFR 300 ff. and provide "community right-to-know" requirements. DSL/NDSL: Canadian Domestic Substances and Non-Domestic Substances Lists.