

SAFETY DATA SHEET

This Material 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 LINE: **RV Trine and Pure Power Products**
CHEMICAL NAME/CLASS: Enzymatic Cleaning Solution
PRODUCT USE: Treatment of Recreational Vehicle Sanitation Units
BRAND INFORMATION:

Part No.	Name	Volume	Part No.	Name	Volume
V88109	RV Trine Bacterial	4 oz	V88279	RV Trine Extreme Temperature	32 oz
V88119	RV Trine Bacterial	32 oz	V88379	RV Trine Original Concentrate	32 oz
V88129	RV Trine Bacterial	128 oz	V88399	RV Trine Original Concentrate	64 oz
V22001	Pure Power Green	16 oz	V23001	Pure Power Blue	16 oz
V22002	Pure Power Green	32 oz	V23002	Pure Power Blue	32 oz
V22003	Pure Power Green	64 oz	V23003	Pure Power Blue	64 oz
V22004	Pure Power Green	4 oz	V23004	Pure Power Blue	4 oz
V22017	Pure Power Green	6-4 oz	V23017	Pure Power Blue	6-4 oz
V22128	Pure Power Green	1 gallon	V23128	Pure Power Blue	1 gallon
V22009	Micro Power	32 oz spray	V23015	Pure Power Blue Bio-Pouch	12-1 oz pouches
V22011	Sensor Power	16 oz	V33001	Pet Force	16 oz
V11001	Power Max	32 oz	V33002	Pet Force	32 oz
V11002	Power Max	1 gallon	V33005	Pet Force	32 oz spray
V44001	Septic Power	32 oz	V33003	Pet Force	1 Gallon
V44002	Septic Power	1 gallon			

MANUFACTURER/

SUPPLIER/DISTRIBUTOR: **Valterra Products, Inc.**
ADDRESS: 15230 San Fernando Mission Blvd.; Suite 107
Mission Hills, CA 91345
COMPANY CODE: E392
BUSINESS PHONE #: 818-898-1671
EMERGENCY PHONE #: CHEMTREC: 1-800-424-9300 / 1-703-527-3887
DATE/ MSDS PREPARATION: Dec 17, 2012
DATE/ MSDS REVISION: Jan. 1, 2019

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This product contains bacteria and enzymes that are not infectious and are non-toxic. The product is completely biodegradable and can be flushed into the sewer system.

PHYSICAL DESCRIPTION: Green, turbid liquid with a minty pine odor.

HEALTH HAZARDS: No significant health hazards are anticipated under typical circumstances if use or release response; contact with skin may cause mild irritation in sensitive individuals. Contact with eyes can cause irritation and temporary redness. Effects will dissipate quickly once exposure ends.

FIRE HAZARDS: No known fire hazard.

PHYSICAL HAZARDS: Negligible under typical circumstances of use or under anticipated emergency response situations.

ENVIRONMENTAL HAZARDS: No significant hazards to animal, plant or aquatic life.

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

GLOBALLY HARMONIZED SYSTEM REVIEW:

CLASSIFICATION: Eye Irritant Category 2B – Mild Irritant; Skin Irritant Category 3.

LABELING:

Symbol: Not applicable.

Signal Word: Warning.

Hazard Statement: Causes eye irritation. Causes mild skin irritation.

Precautionary Statements: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists, get medical attention. If skin irritation occurs, get medical advice. Wash hands after handling.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	EINECS #	% (w/w)	OTHER
Bacterial cultures	Not applicable	Not applicable	< 25%	NOTE: The bacteria in this product are non-infectious and do not cause illness in humans or animals.
Perfume: Aromatic mixture of organic compounds	Not applicable	Not applicable	< 1%	NE
Water	7732-18-5	231-791-2	Balance	NE

4. FIRST AID MEASURES

EYES: Hold contaminated eyes open and flush with copious amounts of water for 15 minutes. “Roll” eyes during flush.

SKIN: Flush area with warm, running water.

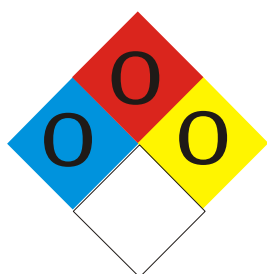
INHALATION: Obtain fresh air. If necessary, blow nose.

INGESTION: Drink copious amounts of water. Contact professional medical personnel or the local poison control center immediately.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate overexposure.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: None known.

5. FIRE-FIGHTING MEASURES



NFPA RATING

NFPA FLAMMABILITY CLASSIFICATION: Not flammable.

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

UNSUITABLE FIRE EXTINGUISHING MEDIA: None known.

UNUSUAL HAZARDS IN FIRE SITUATIONS: When involved in a fire, this material may produce irritating vapors and toxic gases (e.g., carbon monoxide, carbon dioxide).

Explosion Sensitivity to Mechanical Impact: Not sensitive.

Explosion Sensitivity to Static Discharge: Not sensitive.

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; contaminated floors and items may be slippery.

RESPONSE TO NON-INCIDENTAL RELEASES: Not anticipated to occur, due to the nature of the product.

ENVIRONMENTAL PRECAUTIONS: This product contains bacteria and enzymes designed to break-down and digest sanitation wastes. It is not anticipated to cause any harm or damage to the environment, and can be safely rinsed into sewer systems.

RESPONSE PROCEDURES FOR ANY RELEASE: Sponge spilled compound with a damp polypad or other absorbent. Alternatively, flush material into sewer system.

SPILL RESPONSE EQUIPMENT: Polypad or other absorbent material, if needed.

7. HANDLING AND STORAGE

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

HANDLING RECOMMENDATIONS: Employees must be appropriately trained to use this product safely.

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).

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

U.S. NATIONAL EXPOSURE LIMITS:

COMPONENT	ACGIH TLV (ppm)	OSHA PEL (ppm)	NIOSH REL (ppm)	OTHER
Bacterial cultures	NE	NE	NE	NE
Perfume	NE	NE	NE	NE
Water	NE	NE	NE	NE

INTERNATIONAL EXPOSURE LIMITS:

COMPONENT	Exposure Limit (United Kingdom Compliance Note EH 40)	Federal Republic of Germany (DFG) Maximum Concentration Values in the Workplace (MAKs)	OTHER
Bacterial cultures	NE	NE	NE
Aromatic mixture of organic compounds	NE	NE	NE
Water	NE	NE	NE

ENGINEERING CONTROLS: Use this product in well-ventilated environment.

RESPIRATORY PROTECTION: None needed under routine circumstances of use.

HAND PROTECTION: None needed under routine circumstances of use. Rubber, latex, or neoprene gloves should be used when prolonged contact is anticipated.

EYE PROTECTION: None needed under routine circumstances of use. Splash goggles or safety glasses with side shield are recommended if splashes or sprays are anticipated.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid.

COLOR: Green, turbid appearing.

ODOR: Minty pine.

pH: Not applicable.

BOILING POINT: Approximately 100°C (212°F).

MELTING POINT: Approximately 0°C (32 °F).

REFRACTIVE INDEX: Not applicable.

VISCOSITY: ≈ 0.890 cP at about 25 °C.

FLASH POINT: Not applicable.

LOWER EXPLOSIVE LIMIT (LEL): Not applicable.

UPPER EXPLOSIVE LIMIT (UEL): Not applicable.

AUTOIGNITION TEMPERATURE: Not applicable.

VAPOR PRESSURE: ≈ 17.5 mmHg at 20°C.

VAPOR DENSITY (air = 1): ≈ 17.3 g/m³ at 20°C.

SPECIFIC GRAVITY (water = 1): Approximately 1.0.

EVAPORATION RATE (water = 1): ≈ 1.0

COEFFICIENT OIL/WATER DISTRIBUTION (PARTITION COEFFICIENT): Not established.

10. STABILITY AND REACTIVITY

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

INCOMPATIBILITIES: Strong oxidizers, strong acids and compounds that react with water.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS CHEMICAL DECOMPOSITION PRODUCTS: Not applicable.

CONDITIONS TO AVOID: Avoid contact with incompatible chemicals.

11. TOXICOLOGY INFORMATION

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
Bacterial cultures	NO	NO	NO	NO	NO
Perfume	NO	NO	NO	NO	NO
Water	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 are available for components of this product present in greater than 1 percent concentration.

TOXICOLOGICALLY SYNERGISTIC PRODUCTS: None known.

DEGREE OF IRRITATION: Slight to mild, only in sensitive individuals.

SENSITIZATION POTENTIAL: Not applicable.

12. ECOLOGICAL INFORMATION

TOXICITY TO TERRESTRIAL LIFE: Based on available data, this product is not anticipated to be harmful to contaminated plants or animals.

TOXICITY TO AQUATIC LIFE: Based on available data, this product is not anticipated to be harmful to contaminated aquatic plants or animals.

MOBILITY, PERSISTENCE, AND DEGRADABILITY: This product contains bacteria and enzymes designed to break-down and digest sanitation wastes; it is highly mobile, biodegradable, and non-toxic.

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: This product is used for the treatment of sanitation wastes and can be flushed into sewer systems. Otherwise, prepare, transport, treat, store, and dispose of waste product according to all applicable local, U.S. State and U.S. Federal regulations, the applicable Canadian standards, or the appropriate standards of the nations of the European Community.

EPA RCRA WASTE CODE: Not applicable. **EUROPEAN WASTE CODE:** Not applicable.

14. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIALS SHIPPING REGULATIONS:

PROPER SHIPPING NAME: Not hazardous, per US DOT regulations.

HAZARD CLASSIFICATION: Not applicable.

UN/NA IDENTIFICATION NUMBER: Not applicable.

PACKING GROUP: Not applicable.

LABEL: Not applicable.

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK (2008): Not applicable.

MARINE POLLUTANT STATUS: No component is designated as a DOT Marine Pollutant.

CANADIAN TRANSPORTATION INFORMATION: This product is NOT regulated by Transport Canada as dangerous goods under Canadian transportation standards.

IATA DESIGNATION: This product is NOT regulated as dangerous goods by the International Air Transport Association.

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)
Bacterial cultures	NO	NO	NO
Perfume	NO	NO	NO
Water	NO	NO	NO

SARA SECTION 311/312 FOR PRODUCT: Not applicable.

CALIFORNIA SAFE DRINKING WATER ACT (PROPOSITION 65) STATUS: No component of this product is known to the State of California to cause cancer or other reproductive harm.

INTERNATIONAL REGULATIONS

CANADIAN DSL/NDSL INVENTORY STATUS: The components of this product present in greater than 1% concentration are listed on the DSL/NDSL Inventory.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: The components of this product are not on the CEPA Priorities Substances Lists.

CANADIAN WHMIS CLASSIFICATION: Not applicable.

16. OTHER INFORMATION

CURRENT PRODUCT LABEL:

FRONT PANEL	BACK PANEL (continued)
<ul style="list-style-type: none"> • All natural, 100% biodegradable • 4 ½ billion friendly bacterial per dose • Enzymes speed breakdown process • Liquefies waste & toilet paper • Cleans sensors & probes & lube valves • Dump station safe – enhances septic systems 	<p>DIRECTIONS FOR USE – Shake Vigorously:</p> <p>Normal Use – Add one 2 oz. of treatment through your toilet (1 dose treats 40 gallons.) and flush in two gallons of water. Double the dose when the outside temperature is over above 100°F or under 40°F.</p> <p>First Time Use – Formaldehyde and other harsh and poisonous chemical treatments can stop the natural bacterial and enzymatic action that breaks down waste. Rid your tank of previous chemicals by dumping and cleaning your waste tank thoroughly. Add 4 oz. of for the first dose and aflush in 2 gallons of water.</p> <p>Gray Water Tanks and Clogged Drains – For gray water tank odor put one 2 oz overnight treatment in each sink and shower trap. This will keep drains open and remove smells from the gray water tank. Treat regularly to keep drains from clogging or as needed for odor.</p> <p>Portable Toilets Use – As the waste in portable toilets is more concentrated, use one - 2 oz. treatment. Do not use in re-circulating toilets; the digested waste will be reused in the flush cycle.</p> <p>To Clean Sensors and Probes & Extreme Odor Problems – Regular use of this product should keep your sensors clean and working properly. If you experience a problem, add 32 oz. into a full tank. Let it sit for 12 to 48 hours. Agitate by driving RV for a short distance; then dump.</p> <p>Use of Other Cleaning Products – Use only bacterial and enzyme-friendly products like Valterra's RV-Trine Toilet Bowl Bathroom Cleaner. Never use bleach, anti-bacterial products, or mix RV-Trine with chemical toilet treatments that will stop the natural breakdown process.</p> <p>Store in a cool place. Do not freeze.</p> <p>CAUTION: KEEP OUT OF REACH OF CHILDREN. Do not contaminate food substances. Do not allow contact with open cuts, sores, or eyes.</p>
BACK PANEL	
<p>Bacteria and enzymes make up Mother Nature's way of safely breaking down and cleaning the environment and dead organic material. Enzymes jump-start the process by quickly breaking down dead organic matter as bacteria begin the slow process of feeding, digesting, and multiplying again until the waste digesting process is finished. This natural process also works great in RV tanks to stop odor and cleanse the tank while enhancing RV Park septic systems. Be on the side of Mother Nature and use RV-Trine's Bacterial Waste Tank treatment Formula. You'll never go back to chemicals.</p>	

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: CAS Number: Chemical Abstract Service Number, which is used by the American chemical Society to uniquely identify a chemical. EINECS: European Inventory of Existing Commercial Substances.

SECTION 3: 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 5: NFPA: National Fire Protection Association. NFPA FLAMMABILITY CLASSIFICATION: The NFPA uses the flash point (F.I.P.) and boiling point (BP) to classify flammable or combustible liquids. Class IA: F.I.P. below 73°F and BP below 100°F. Class IB: F.I.P. below 73°F and BP at or above 100°F. Class IC: : F.I.P. at or above 73°F and BP at or above 100°F. Class II: : F.I.P. at or above 100°F and below 140°F. Class IIIA: F.I.P. at or above 140°F and below 200°F. Class IIIB: F.I.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/m³: Milligrams per cubic meter. mppcf: Millions of Particles per Cubic Foot. EL: Exposure Limit (United Kingdom). Federal Republic of Germany (DFG) Maximum Concentration Values in the Workplace (MAKs)

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. ≈: Approximately symbol.

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: LDxx or LCxx: 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 access the toxicity of chemical substances to humans. TDxx or TCxx: 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). The regulations promulgated under this Act are located under 40 CFR 300 ff. and provide "community right-to-know" requirements. DSL/NDL: Canadian Domestic Substances and Non-Domestic Substances Lists.