



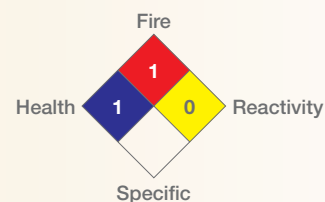
# Material Safety Data Sheet

## 1.0 Chemical Product and Company Identification

**Resonant BioSciences, LLC**  
 1400 16th St., Ste. 400  
 Denver, CO 80202  
 Toll Free: 866.933.0408  
 Fax: 303.933.3594  
 www.puremash.com

Product name: **PureVida Boost™**

**Emergency Phone**  
 888.299.3899  
 CHEMTREC 800.424.9300  
 CHEMTREC International 1.703.527.3887



## 2.0 Composition / Information on Ingredients

PureVida Boost is a nutrient blend for yeast in ethanol fermentation with the following ingredients:

Proprietary fomulation, *calcium sulfate*, *monoammonium phosphate*, *zinc sulfate*, *magnesium sulfate*, dried sweet whey, niacin, *calcium pantothenate*, riboflavin, vitamin A acetate, vitamin K (msbc), biotin, vitamin B<sub>12</sub>, pyridoxine, thiamine, vitamin D<sub>3</sub>, folic acid, natural and artificial flavors.

## 3.0 Hazards Identification

Skin	Repeated or prolonged contact may cause reddening, itching, and inflammation. Contact with heated material may cause thermal burns.
Eye`	Severe irritant. Repeated or prolonged contact may cause reddening, itching, and inflammation.
Inhalation	May cause respiratory tract irritation, although no incidents of dust inhalation health effects have been reported
Ingestion	May cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting, and diarrhea.
Potential chronic health effects	None known

## 4.0 First Aid Measures

Eye	In case of contact, do not rub or scratch your eyes. Flush thoroughly with water for 15 minutes to remove particles. If irritation persists, consult a physician.
Skin	Wash with mild soap and water. If irritation persists, consult a physician.
Inhalation	Remove to fresh air. Leave the area of dust exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary. However, if conditions warrant, contact a physician.
Ingestion	This product is not intended to be ingested or eaten. In case of accidental ingestion, do not induce vomiting and get medical attention.

## 5.0 Fire Fighting Measures

Flash points	Not applicable
Auto-ignition temperature	Not applicable
Lower explosive limit	Not applicable
Upper explosive limit	Not applicable
Unusual fire and explosion hazards	Poisonous gases are produced in fire. Wear full protective clothing, self-contained breathing apparatus operated in pressure-demand mode.
Extinguishing media	All standard agents are acceptable. Use extinguishing agent suitable for surrounding fire.
Special fire fighting procedures and equipment	Irritating toxic substances may be emitted upon thermal decomposition. Exposed firefighters should wear NIOSH-approved, self-contained breathing apparatus with full face piece and full protective clothing. May form explosive mixtures if mixed with strong acid (nitric / perchloric).

## 6.0 Accidental Release Measures

Small spill	If uncontaminated, recover, and reuse as product
Large spill	Prevent large quantities from contacting vegetation or waterways. Keep animals away from large spills.
Release notes	If spill could potentially enter any waterway, including intermittent dry creeks, contact the local authorities. If in the U.S., contact the US COAST GUARD NATIONAL RESPONSE CENTER toll free number 800.424.8802. In case of accident or road spill notify: CHEMTREC IN USA at 800.424.9300; CANUTEC in Canada at 613.996.6666. CHEMTREC in other countries at (International code) +1.703.527.3887.

## 7.0 Handling and Storage

Handling	Avoid contact with eyes. Avoid repeated or prolonged contact with the skin or clothing. Avoid dust inhalation. Contact lenses should not be worn.
Storage	Store in cool, dry, isolated, well-ventilated area away from heat, sources of ignition, and incompatibles. Avoid contamination with other "look alike" materials that may produce a fire or explosion. SPECIAL PRECAUTIONS / PROCEDURES / LABEL INSTRUCTIONS: Avoid containers, piping or fittings made of brass, bronze or other copper bearing alloys or galvanized metals.

## 8.0 Exposure Controls / Personal Protection

Engineering controls	Provide local or general ventilation to keep below nuisance dust limit of 15mg / m <sup>3</sup>
Eye protection	Wear safety glasses or chemical goggles to prevent eye contact. Do not wear contact lenses when working with this substance. Have eye wash facilities available where eye contact could occur.
Protective clothing	Wear impervious gloves and protective clothing to prevent skin contact
Respiratory protection	Normally none needed. Use NIOSH-approved equipment when airborne dust exposure limits are exceeded. NIOSH-approved breathing equipment must be available for non-routine and emergency use
Other protective clothing or equipment	Normally not required

## 9.0 Physical and Chemical

Appearance / color / odor	Light golden brown granular texture, with light white and gray speckles throughout. Yeasty alcohol odor.
Melting point / range	Not applicable
Boiling point	Not applicable
Solubility in water	Not applicable
Boiling point / range	Not applicable
Specific gravity	Not applicable
Vapor pressure (mmHg)	Not applicable
Vapor density	Not applicable

*continued on next page*

## 9.0 Physical and Chemical Properties ...continued

Molecular weight	Not applicable
Bulk density	Not applicable
% volatiles	Not applicable
pH	Not applicable
Evaporation rate	Not applicable
Viscosity	Not applicable
Density	0.558 kg / liter

## 10.0 Chemical Stability and Reactivity Information

Stability	This product is stable under normal ambient conditions of temperature and pressure
Hazardous polymerization	Will not occur
Conditions to avoid	Urea portion may slowly hydrolyze to <i>ammonium carbamate</i> after a long period of time which decomposes to <i>ammonia dioxide</i>
Materials to avoid	Avoid contact with strong oxidizers, acids, or bases. Avoid contact with nitrates. Reacts with sodium or <i>calcium hypochlorite</i> to form explosive <i>nitrogen trichloride</i> .
Hazardous decomposition products	Urea portion decomposes to ammonia, biuret, nitrogen oxides, carbon oxides

## 11.0 Toxicological Information

Significant routes of exposure	Eyes, digestive tract, respiratory tract, skin
Toxicity to animals	Not found to be toxic by oral exposure as defined by OSHA
Other effects on humans	No significant side effects on humans have been noted
Special remarks on chronic effects on humans	No chronic effects known

## 12.0 Ecological Information

Ecotoxicity	Acute toxicity to fish and aquatic plants
Toxicity	No known toxicity
Degradation products	Biodegradation: ultimately biodegradable

## 13.0 Disposal Considerations

Product disposal	Dispose of material in accordance with federal, state, provincial, and local regulations. Consult with environmental regulatory agencies for guidance on acceptable disposal practices. Never discharge directly into sewers or surface waters.
------------------	---

## 14.0 Transport Information

U.S.A. DOT information	Not a hazardous material per DOT shipping requirements. Not classified or regulated.
------------------------	--

## 15.0 Regulatory Information

U.S.A.	
SARA hazard category	
40 CFR Part 355 — Extremely hazardous substances	Not applicable
40 CFR Part 370 — Hazardous chemical reporting	Not applicable
Canada	
WHMIS hazard symbol and classification	This product is not WHMIS-controlled
Ingredient disclosure list	This product does not contain ingredients on this list
Environmental protection act	All international ingredients are listed on the DSL (Domestic Substance List)

## 16.0 Other Information

NFPA hazard ratings	Health: 1 Fire: 1 Reactivity: 0
Special hazards	0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme



For more information email [info@puremash.com](mailto:info@puremash.com)

**CONFIDENTIAL & TRADE SECRET**

THIS DOCUMENT, INCLUDING THE INFORMATION, DATA AND DESIGN, IS THE PROPERTY OF RESONANT BIOSCIENCES, LLC. IT IS NOT TO BE COPIED, REPRODUCED OR ITS CONTENTS DIVULGED WITHOUT WRITTEN PERMISSION.

Resonant BioSciences, LLC technical personnel experienced in the product prepared the information presented in this document. It is intended for all who will be involved with the use / implementation of this product or the use, handling, storage, transport of materials associated with the product. This information has been prepared for the guidance of engineering, operations and management personnel. While Resonant BioSciences, LLC believes this information to be reliable and current, Resonant BioSciences, LLC makes no warranty that it is. Resonant BioSciences, LLC makes no warranty or guarantee, express or implied, regarding the accuracy, completeness, applicability, performance at your plant, etc. Prior to implementation, the user should make its own independent evaluation of the product and particularly the implementation of the product in their facility given their individual circumstances.