PRODUCT №: **GSE300** *Version 01* *May 5, 2018* **SAFETY DATA SHEET**

SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFICATION:

PRODUCT NAME: **StellarTan® F Fermentation Tannin**

PRODUCT NUMBER: **GSE300** PRODUCT FORM: Dry powder

COMMON NAME: Grape seed extract powder

1.2 INTENDED USE OF THE PRODUCT: Food additive (ingredient for foods, including beverages)

1.3 CONTACT INFORMATION:

COMPANY: **Polyphenolics – Division of Constellation Brands** (Manufacturer)
12667 Road 24, Madera, CA 93637 USA

PHONE: **559.661.5556** FAX: **559.661.5630**

GENERAL DELIVERY EMAIL: **polyphenolics@cbrands.com**

1.4 EMERGENCY PHONE: 559.661.5548 **24-Hour EMERGENCY PHONE: 559.661.5500** (Mission Bell Winery)

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 GHS-US CLASSIFICATION OF THE SUBSTANCE OR MIXTURE: No classification

2.2 LABEL ELEMENTS (GHS-US): SIGNAL WORD: Not applicable HAZARD STATEMENTS: Not applicable

2.3 OTHER HAZARDS: May form explosible dust-air mixture if dispersed without adequate controls.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 SUBSTANCE

NAME	PRODUCT IDENTIFIER	PERCENT
Grape seeds	[No CAS №]	100 %

3.2 MIXTURE not applicable

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

General: Never give fluids or induce vomiting if person is unconscious, incoherent, or experiencing convulsions. If seeking medical attention, have a copy of this SDS in hand.

After Inhalation: Using proper respiratory protection, move the exposed person to fresh air at once. Encourage exposed person to remove dust by coughing, spitting out, and/or blowing their nose. Seek medical attention if breathing problems develop or persist.

After Skin Contact: Remove contaminated clothing. Thoroughly rinse affected area with water. Seek medical attention if irritation develops or persists.

After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if needed.

After Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical attention if needed.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Symptoms/Injuries: No significant hazards expected under anticipated conditions of normal use.

After Inhalation: Dust may cause irritation to sensitive tissues

After Skin Contact: Prolonged exposure may cause skin irritation.

After Eye Contact: May cause slight irritation to eyes.

After Ingestion: Ingestion is unlikely to cause adverse effects.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

If exposed or concerned, get medical advice and attention. Give the healthcare provider a copy of this SDS.

SECTION 5: FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Use caution with water streams. Use of a heavy water stream may spread fire.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Fire Hazard: Flammable. If/when airborne, combustion hazard may be present.

Explosion Hazard: May form explosible dust-air mixture if dispersed.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3 ADVICE FOR FIREFIGHTERS

Precautionary Measures: Exercise caution, as when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.
(Material is water soluble.)

Protection During Firefighting: Use respiratory protective equipment and other personal protection equipment.

Other Information: Hazardous combustion products - Carbon oxides (CO, CO_2), irritating fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

General Measures: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust.
Avoid generating dust. Remove ignition sources. No smoking.
Keep away from hot surfaces, sparks, open flames, and other ignition sources.

6.1.1 FOR NON-EMERGENCY PERSONNEL

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate non-essential personnel.

6.1.2 FOR EMERGENCY RESPONDERS

Protective Equipment: Equip cleanup crew with appropriate personal protection equipment.

Emergency Procedures: Ventilate area. Upon arrival at the scene, a first responder is expected to recognize presence of any dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2 ENVIRONMENTAL PRECAUTIONS: Limit unnecessary entry to sewers and public waters.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

For Containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. Avoid generating dust during spill clean-ups.

Methods for Cleaning Up: Promptly contain and clean up spills by standard dry methods such as vacuuming or sweeping. Dispose of waste safely. If sweeping is required, use a dust suppressant and non-sparking tools.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Precautions for Safe Handling: Avoid dust formation. Provide appropriate dust control in areas where dust may form. Take precautionary measures to prevent static discharges in dusty areas.

Hygiene Measures: Handle in accordance with Good Manufacturing Practices and safety procedures.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Technical Measures: Comply with applicable regulations for a food warehouse.
Avoid creating or spreading dust. Ensure proper grounding to avoid static (sparks).
Use explosion-resistant systems, especially for electricity, ventilation, and lighting.

Storage Conditions: Store in a dry, tightly closed, opaque container to protect from moisture, light, ambient environment and keep in a dry place in order to protect product.

Incompatible Products: Do not mix or store with non-food items. Store with foods and/or food additives.

Storage Temperature: Store at ambient temperature, approximately 21°C (70°F).

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

For this substance, as listed in section 3, there are no established exposure limits from the manufacturer (supplier) or an appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

8.2 EXPOSURE CONTROLS

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national and local regulations are observed. Equipment and instruments should be properly grounded to avoid static electricity. Use of explosion-dampers is recommended for powder handling areas. Use local dust collection or general dilution ventilation or other suppression methods to limit airborne dust levels in handling areas. Power equipment should be equipped with proper dust collection devices. It is recommended that all dust control equipment, such as local exhaust ventilation and material transport systems involved in handling of this product, contain explosion relief vents, explosion suppression systems, an oxygen-deficient environment, or equivalent safety system

Personal Protective Equipment:	Gloves, protective clothing, protective goggles. In poor ventilation: Wear respiratory protection.
Materials for Protective Clothing:	Standard for food processing environment and Good Manufacturing Practices.
Hand Protection:	Vinyl or latex gloves may be worn.
Eye Protection:	Chemical safety glasses or goggles may be worn.
Skin and Body Protection:	Wear suitable protective clothing to limit or prevent direct contact, and dress according to Good Manufacturing Practices.
Respiratory Protection:	If exposure limits are exceeded or irritation is experienced, approved respiratory proctection (or a dust mask) should be worn. Follow Good Manufacturing Practices.
Other Information:	Use Good Manufacturing Practices for foods and/or supplements.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Dry Solid (fine powder)	**Flammability (solid, gas):**	No data available
Appearance:	reddish-brown powder	**Upper/lower flammability or explosive limits:**	No data available
Odor:	Typical of wine grape phenolics	**Vapor Pressure:**	N/A (powder)
Odor Threshold:	No data available	**Vapor Density:**	N/A (powder)
pH:	2.0 - 5.5 (4% in water)	**Relative Density:**	250 - 500 kg/m^3
Melting Point:	No data available	**Solubility:**	Soluble in water
Freezing Point:	No data available	**Partition coefficient: n-octanol/water:**	No data available
Boiling Point:	No data available	**Auto-ignition Temperature:**	No data available
Flash Point:	> 200.0°F	**Decomposition Temperature:**	No data available
Evaporation Rate:	N/A (powder)	**Viscosity:**	N/A (powder)

9.2 OTHER INFORMATION: Bitter and astringent taste

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY: Hazardous reactions will not occur under normal conditions.

10.2 CHEMICAL STABILITY: Stable under recommended handling and storage conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS: Not applicable

10.4 CONDITIONS TO AVOID: Avoid sparks, heat, open flame and other sources of ignition. (Direct sunlight, extremely high or low temperatures, and incompatible materials will degrade product.)

10.5 INCOMPATIBLE MATERIALS: Strong oxidizers.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS: No known hazardous decomposition products.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

GRAS Food Additive: See GRAS Notice № 000125 at www.fda.gov

Acute Toxicity:	No relevant compound related toxicological effects
Skin Corrosion/Irritation:	Not classified
Serious Eye Damage/Irritation:	Not classified
Respiratory or Skin Sensitization:	Not classified
Germ Cell Mutagenicity:	No known mutagenic effects
Carcinogenicity:	No known significant effects or critical hazards.
Reproductive Toxicity:	No known significant effects or critical hazards.
Specific Target Organ Toxicity (Single Exposure):	Not classified; not suspect
Specific Target Organ Toxicity (Repeated Exposure):	Not classified; not suspect
Aspiration Hazard:	Not classified
Symptoms/Injuries After Inhalation:	Prolonged exposure to dust may be harmful or cause irritation.
Symptoms/Injuries After Skin Contact:	Prolonged exposure may cause skin irritation.
Symptoms/Injuries After Eye Contact:	Prolonged or excessive exposure may cause eye irritation.
Symptoms/Injuries After Ingestion:	Excessive bulk consumption may cause digestive tract discomfort.

SECTION 12: ECOLOGICAL INFORMATION (VOLUNTARY SECTION)

12.1	**GENERAL ECOLOGICAL TOXICITY**	Not classified; not an identified hazard
12.2	**PERSISTENCE AND DEGRADABILITY**	Not classified
12.3	**BIOACCUMULATIVE POTENTIAL**	Not classified
12.4	**MOBILITY IN SOIL**	No additional information available
12.5	**OTHER ADVERSE EFFECTS**	Avoid bulk release into the environment.

SECTION 13: DISPOSAL CONSIDERATIONS (VOLUNTARY SECTION)

13.1 WASTE TREATMENT METHODS

Waste Disposal Recommendations:	Dispose of contents/container as dry waste in compliance with prevailing local, national, and/or international regulations.
Additional Information:	Do not re-use plastic liner bags. Dispose of as waste.
Ecology – Waste Materials:	Avoid release to the environment. Corrugate carton is recyclable.

SECTION 14: TRANSPORT INFORMATION (VOLUNTARY SECTION)

14.1	**IN ACCORDANCE WITH DOT:**	Not regulated for transport. (Handle as a food ingredient - 21 CFR §1.900 - §1.934.)
14.2	**IN ACCORDANCE WITH IMDG:**	Not regulated for transport. (Handle as a food ingredient.)
14.3	**IN ACCORDANCE WITH IATA:**	Not regulated for transport. (Handle as a food ingredient.)

SECTION 15: REGULATORY INFORMATION (VOLUNTARY SECTION)

15.1	**US FEDERAL REGULATIONS:**	Not an EPA-listed hazard. Generally Recognized as Safe (GRAS) Food Additive derived from grapes (*Vitis vinifera.*) See GRAS Notice № 000125 details at www.fda.gov.
15.2	**US STATE REGULATIONS:**	To the best of our knowledge, this product does not appear on a hazardous chemical list.

SECTION 16: DOCUMENT VERSION CONTROL

REVISION DATE: May 5, 2018 (Version 01: reviewed & updated with san-serif font for easier reading

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.