

## Safety Data Sheet

### Section 1: Identification

<b>Product name</b>	B1101 Frozen Beef Broth B1101 Frozen Beef Stock B1101 Frozen Natural Beef Broth B1101 Organic Frozen Natural Beef Stock B1102 Frozen Natural Beef Stock B1102 Organic Frozen Natural Beef Broth B1105 Frozen Natural Beef Broth B1105 Organic Frozen Natural Beef Broth B1201 Beef Broth Paste B1201 Beef Stock Paste B1301 Spray-Dried Natural Beef Stock B1301 Spray-Dried Beef Broth B1301 Organic Spray-Dried Natural Beef Broth B1302 Spray-Dried Natural Beef Stock B1302 Organic Spray-Dried Natural Beef Broth B1307 Dried Beef Bone Broth B1310 Spray-Dried Hydrolyzed Beef Stock B1640 Dried Beef Bone Broth B1702 Flowable Beef Stock B2301 Spray-Dried Natural Beef Extract ProFlavor™ 2307 Beef Flavor ProFlavor™ 3301 Spray-Dried Beef Flavor ProFlavor™ 3307 Beef Flavor B4102 Frozen Beef Fat B4702 Shelf Stable Beef Fat w/ Antioxidant BeefISOTM Dried Spray-Dried Beef Protein Isolate BeefISOTM Dried Beef Protein Isolate68060
<b>Recommended use</b>	Used as an additive/ingredient in food systems
<b>Company</b>	Proliant Health & Biologicals 2425 SE Oak Tree Court Ankeny, IA 50021
<b>Emergency telephone number</b>	(515) 289-5170

### Section 2: Hazard Identification

<b>Classification of the substance or mixture</b>	Not a hazardous substance or mixture
<b>Label elements</b>	Not a hazardous substance or mixture
<b>Hazards not other classified (HNOC)</b>	None known

### Section 3: Composition/Information on Ingredients

The product does not contain substances that, at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

### Section 4: First Aid Measures

<b>Inhalation</b>	Minimize inhalation. If large amount inhaled, move victim to fresh air. If breathing problems occur, consult a physician.
<b>Skin</b>	Wipe off excess wash with clean water.
<b>Eye</b>	Wash eyes extensively with clean water. If irritation persists, see a physician.
<b>Ingestion</b>	Product fit for consumption as food.
<b>Most important symptoms and effects, both acute and delayed</b>	<b>Notes to physician</b> All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

### Section 5: Fire Fighting Measures

<b>Suitable Extinguishing Media</b>	Liquid: Regular foam, carbon dioxide, dry chemical. Powder: Water spray, regular foam, carbon dioxide, dry chemical
<b>Unsuitable Extinguishing Media</b>	Do not use water jet.
<b>Unusual Fire and Explosion Hazards</b>	Liquid: Not Applicable Powder: Any fine powder is susceptible to fire risk so keep away from combustion sources.
<b>Advice for firefighters</b>	Wear self-contained breathing apparatus and protective suit

### Section 6: Accidental Release Measures

<b>Personal Precautions</b>	Goggles, rubber gloves recommended. In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Emergency Procedures</b>	As an immediate precautionary measure isolate spill or leak area for at least 50 meters (150 feet) in all directions.
<b>Environmental Precautions</b>	Avoid release to environment.

**Methods / Materials for Containment/Clean-up**

Powder: sweep up into suitable containers for recovery or disposal. Dispose of via a licensed waste disposal contractor. Flush area with soap and water.

Liquid: Absorb with an inert dry material. Sweep up into suitable containers for recovery or disposal. Flush area with soap and water. Dispose of via a licensed waste disposal contractor.

## Section 7: Handling and Storage

**Precautions for Safe Handling**

Avoid inhaling dust. Avoid contact with eyes. In case of insufficient ventilation, wear suitable respiratory equipment.

**Storage**

Store in clean, dry area; ambient temperature

## Section 8: Exposure Controls/Personal Protection

**Occupational Exposure**

Contains no substances with occupational exposure limit values.

**Engineering Measures**

Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable exposure limit values.

**Personal Protective Equipment**
**Respiratory**

In case of insufficient ventilation, wear suitable respiratory equipment.

**Eye/Face**

Wear safety goggles.

**Skin/Body**

Wear protective gloves.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

**Environmental Exposure Controls**

Follow best practice for site management and disposal of waste. Avoid release to environment.

## Section 9: Physical and Chemical Properties

**Material Description**
**Physical form**

Powder (Dried) or Viscous Liquid (frozen or paste)

**Appearance**

Light beige to dark tan in color

**Odor**

Typical roasted beef aroma

**Odor threshold**

No data available

<b>pH</b>	No data available
<b>Melting point/range</b>	No data available
<b>Boiling point/range</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper/lower flammability or explosive limit</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Vapor density</b>	No data available
<b>Relative density</b>	No data available
<b>Solubility</b>	Soluble in water
<b>Partition coefficient</b>	No data available
<b>Autoignition</b>	No data available
<b>Viscosity</b>	No data available

### Section 10: Stability and Reactivity

<b>Reactivity</b>	None known under conditions of normal use
<b>Chemical stability</b>	Stable under normal temperatures and pressures
<b>Hazardous reactions</b>	None known under conditions of normal use
<b>Incompatible materials</b>	None known under conditions of normal use
<b>Hazardous decomposition products</b>	None known under conditions of normal use
<b>Hazardous polymerization</b>	Hazardous polymerization will not occur

### Section 11: Toxicological Information

<b>Acute Toxicity</b>	No known effects under conditions normal of use.
<b>Inhalation</b>	No data available

<b>Skin Irritation</b>	No data available
<b>Eye Damage/Eye Irritation</b>	No data available
<b>Ingestion</b>	No known effects under normal use conditions (edible protein).
<b>Specific Target Organ Toxicity – Single Exposure</b>	No data available
<b>Specific Target Organ Toxicity – Repeated Exposure</b>	No data available
<b>Reproductive Toxicity</b>	No data available
<b>Aspirational Hazard</b>	No data available
<b>Carcinogenicity</b>	No known component of this product is listed in the National Toxicology Program (NTP) Carcinogens (latest edition), International Agency for Research on Cancer (IARC) Monographs (latest edition), or OSHA.

### Section 12: Ecological Information

<b>Toxicity</b>	Nontoxic product
<b>Biodegradation</b>	100% degradable through physical-chemical and biological purification.
<b>Bioaccumulation</b>	The product does not contain substances that are accumulated in biota.
<b>Mobility in soil</b>	Completely soluble in water, so that its migration into the waters located near the application point is possible. Absorb and scoop up to eliminate it conveniently before rinsing.

### Section 13: Disposal Considerations

<b>Product waste</b>	Dispose of content and/or container to licensed waste disposal site in accordance with local, regional, national, and/or international regulations.
<b>Packaging waste</b>	Dispose of content and/or container to licensed waste disposal site in accordance with local, regional, national, and/or international regulations.

### Section 14: Transport Information

<b>IATA</b>	
Proper shipping name	Not classified as dangerous in the meaning of transport regulations

Hazard class	None
Subsidiary class	None
Packing group	None
UN number	None

## Section 15: Regulatory Information

### SARA Hazard Classifications

This product is not regulated by SARA.

### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs.

### California Proposition 65

This product does not contain chemicals listed under Proposition 65.

## Section 16 – Other Information

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