

## Safety Data Sheet

### Section 1: Identification

<b>Product Name:</b>	Dehydrated Crab Shell	<b>Manufacturer:</b>	BioOregon Protein
<b>Common Name(s):</b>	crab shell, fine crab shell	<b>Physical Address:</b>	1935 NW Warrenton Drive Warrenton OR, 97146
<b>Product Code:</b>	N/A		
<b>CAS #:</b>	N/A	<b>Mailing Address:</b>	PO Box 429 Warrenton OR, 97146
<b>Recommended Use:</b>	For use as a fertilizer or agricultural soil amendment	<b>Telephone Number:</b>	503-861-2256
<b>Restrictions:</b>	N/A	<b>Emergency #:</b>	503-861-2256

### Section 2: Hazard Identification

**Hazard Group:** Health  
**Hazard Classes:** Potential skin irritant and skin sensitizer (Category 1B)

#### Hazard Statements

H305: May be harmful if swallowed and enters airways  
H316: Causes mild skin irritation  
H317: May cause an allergic skin reaction  
H335: May cause respiratory irritation



#### Precautionary Statements

##### Prevention

P264: Wash skin thoroughly after handling  
P261: Avoid breathing dust  
P280: Use a particle mask and nitrile gloves under normal conditions

##### Response

P302: If on skin: wash with plenty of soap and water  
P304: If inhaled: remove person to fresh air and keep comfortable for breathing  
P305: If in eyes: rinse cautiously with water for several minutes  
P333: If skin irritation or rash occurs, wash area thoroughly and receive medical attention

##### Storage

P402: Store in a dry place. Avoid excessive humidity or moisture.

##### Disposal

P501: Dispose of contents in a compost pile, garden, or landfill in accordance with local, state, and federal regulations.

**Section 3: Composition/Information on Ingredients**

**Ingredients:** 100% Dungeness crab (*Metacarcinus magister*) shell  
**CAS #:** N/A  
**NIOSH Registry #:** Not Registered

**Section 4: First-Aid Measures**

**Inhalation:** Remove person to fresh air and keep comfortable for breathing. If respiratory distress continues, seek medical attention.  
**Skin Irritation:** Wash with plenty of soap and water. If irritation persists, seek medical attention.  
**Eye:** Rinse cautiously with water for several minutes. If irritation persists, seek medical attention.  
**Ingestion:** If gastrointestinal distress occurs, seek medical attention.  
**Allergen:** This product may cause an allergic reaction. If an allergic reaction occurs, seek medical attention immediately.

**Section 5: Fire-Fighting Measures**

**Suitable Extinguishing Media:** Water, regular foam, carbon dioxide, dry chemical  
**Unsuitable Extinguishing Media:** None  
**Flash Point:** N/A  
**Specific Fire-Related Hazards:** None  
**Special Fire-Fighting Procedures:** None  
**Unusual Fire/Explosion Hazards:** None

**Section 6: Accidental Release Measures**

**Personal Precautions:** Wear a particle mask and nitrile gloves during handling  
**Environmental Precautions:** None  
**Methods for Handling Spills:** In case of spill: handle using nitrile gloves and wear a particle mask. Employ best-practice sanitation methods for clean-up. Utilize a vacuum or sweep the product with a broom and dispose in a garbage receptacle. There are no special emergency procedures for clean-up.

**Section 7: Handling and Storage**

**Safe Handling:** Wear gloves and a particle mask when handling and transporting. Avoid excessive humidity, contact with moisture, and extreme temperatures to retain product functionality. There are no known incompatibilities with this material.

## Safety Data Sheet

### Section 8: Exposure Control/Personal Protection

**Exposure Limit:** There are no exposure limits defined for this product.

#### Recommended PPE and Handling Practices

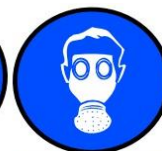
**Respiratory:** Particle mask.  
**Skin Protection:** Nitrile gloves  
**Eye Protection:** Safety glasses  
**Hygiene:** Wash hands thoroughly with soap and water  
**Ventilation:** Ensure workspace is well-ventilated



Safety Glasses



Gloves



Particle Mask / Respirator

### Section 9: Physical and Chemical Properties

<b>Appearance:</b>	Pink to brown, fine ground	<b>Freezing Point:</b>	Unknown
<b>Flammability Limits:</b>	Unknown	<b>Solubility in Water:</b>	Unknown
<b>Odor:</b>	Mild crab odor	<b>Initial Boiling Point:</b>	Unknown
<b>Odor Threshold:</b>	Unknown	<b>Boiling Range:</b>	Unknown
<b>Vapor Pressure:</b>	Unknown	<b>Flash Point:</b>	Unknown
<b>Vapor Density:</b>	Unknown	<b>Evaporation Rate:</b>	N/A
<b>pH:</b>	9.5 – 10.0	<b>Flammability:</b>	Unknown
<b>Relative Density:</b>	30 – 33 lb/ft <sup>3</sup>	<b>Viscosity:</b>	Unknown
<b>Melting Point:</b>	Unknown		

### Section 10: Stability and Reactivity

**Reactivity:** No specific test data is currently available  
**Chemical Stability:** Product is stable under normal temperatures and conditions  
**Conditions to Avoid:** Extreme temperatures and excessive moisture  
**Required Stabilizers:** None  
**Incompatibility:** None currently known  
**Hazardous Decomposition:** None currently known  
**Hazardous Polymerization:** Will not occur  
**Hazardous Reactions:** None currently known

### Section 11: Toxicological Information

**Primary Routes of Exposure:** Inhalation, skin contact, and eye contact  
**Symptoms of Exposure:** May act as a slight irritant to the skin or respiratory system. Slight dermatitis may occur. Mild respiratory irritation and cough may occur. Possible allergic reactions in sensitive individuals. Rash and swelling may occur in skin. Mild respiratory distress and frequent coughing may

## Safety Data Sheet

occur. No studies currently known describing effects of delayed, immediate, or chronic effects from short- and long-term exposure.

**LD50:** Currently unknown  
**Carcinogenicity:** Currently unknown  
**Medical Conditions Aggravated by Exposure:** Allergic reaction may occur

### Section 12: Ecological Information

**Ecology:** Product is naturally occurring in coastal ecosystems of the west coast of the United States and Canada  
**Ecological Effects:** There are no known ecological effects  
**Toxicity Testing:** Currently unknown  
**Bioaccumulation Potential:** Currently unknown

### Section 13: Disposal Considerations

**Disposal Containers:** There are no known restrictions on disposal containers  
**Disposal Methods:** Recommended disposal is use as fertilizer in a compost pile, garden, or other plant-based ecosystem. Alternatively, product may be disposed of in a landfill in accordance with local, state, and federal regulations.  
**Disposal Restrictions:** Do not dispose through sewage systems. Do not burn as a method of disposal.

### Section 14: Transport Information

**UN Number:** None assigned  
**UN Proper Shipping Name:** None assigned  
**Transport Hazard Class:** Non-hazardous  
**Environmental Hazards:** None known  
**Guidance on Bulk Transport:** Use best known practices when shipping in bulk  
**Special Precautions:** None known

### Section 15: Regulatory Information

There are currently no known regulations of the product.

**Section 16: Other Information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Date of Preparation:** 02/02/2015

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