

SAFETY DATA SHEET

I. IDENTIFICATION

PRODUCT NAME: 0-7-0 Archipelago Bat Guano
DISTRIBUTOR: Bridgewell Agribusiness LLC
 12420 SE Carpenter Drive
 Clackamas, OR 97015
 (503) 723-5410
PRODUCT USE: Used as natural phosphate fertilizer without alteration

II. HAZARD(S) IDENTIFICATION

PRECAUTIONARY STATEMENT: Potential Acute Health Effects: Material contains fine grained particles. Dust may irritate eyes, nose, throat, and skin upon prolonged contact. Potential Chronic Health Effects: Contains quartz. Prolonged or repeated overexposure without protective equipment may cause progressive and permanent respiratory disorder including but not limited to silicosis.

III. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCES

CHEMICAL NAME: Carbonate Apatite, Crandallite, Calcite (10 wt.%), Quartz (2 wt.%)
CHEMICAL FAMILY: Ore from fossilized bat guano containing predominately phosphorous and calcium hydroxides, with 10 wt. % calcium carbonate, 2 wt. % silica dioxide, and trace iron oxide.
CHEMICAL FORMULA: Carbonate Apatite – $\text{Ca}_5(\text{PO}_4\text{CO}_3)_3(\text{OH})$; Crandallite – $\text{Ca}_2\text{Al}_2(\text{PO}_4)_3\text{OH}_{16}\cdot 3\text{H}_2\text{O}$; Calcite – CaCO_3 (10% wt. %); Quartz – SiO_2 (2 wt. %)

SYNONYMS: Fossilized Bat Guano
CAS NUMBER: 14808-60-7
EXPOSURE LIMITS: TLV-TWA: 0.1mg/m³ TLV-TWA: 0.1ppm
TOXICOLOGICAL DATA ON INGREDIENTS: No adverse effects expected

IV. FIRST-AID MEASURES

INHALATION: Inhalation of dust may produce irritation of the respiratory tract, sneezing and coughing. Move to well-ventilated area and allow to rest. If symptoms continue, seek professional medical attention.
SKIN CONTACT: May cause dryness of skin. Wash with soap and water. Apply moisturizing cream if dryness occurs.
EYE CONTACT: May cause irritation owing to abrasive nature of dust. Wash eyes with water to remove dust.
INGESTION: Non toxic on slight ingestion. No specific treatment is required. Contains less than .1% fluoride. Seek immediate professional medical attention for potential acute floridosis if ingestion approaches or exceeds 1 ounce of material per 10 pounds of body weight.

V. FIRE-FIGHTING MEASURES

FIRE HAZARD: Non-Flammable, not explosive
EXTINGUISHING METHOD: Not combustible
PRODUCTS OF COMBUSTION: Not applicable
FIRE HAZARD IN THE PRESENCE OF VARIOUS SUBSTANCES: Not applicable

SPECIAL REMARKS ON
FIRE HAZARDS: No additional information

SPECIAL REMARKS ON
EXPLOSION HAZARDS: No additional information

VI. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Sweep and re-use if not contaminated. If contaminated, dispose of in accordance with Federal, State and Local regulations.

LARGE SPILL: No additional information

VII. HANDLING AND STORAGE

HANDLING: If user generates dust, use ventilation to keep exposure levels below the stated TLV. Due to silica content of dust, respirators should be used that conform to OSHA 29 CFR 1910.134 requirements.

STORAGE: Prevent exposure to high temperatures and flames, and store in a dry clean area.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING
CONTROLS: Use process enclosures or local exhaust ventilation to keep airborne levels below TLV.

PERSONAL PROTECTION: A filtering facepiece dust mask that meets OSHA 29 CFR 1910.134 requirements should be worn for respiratory protection. If conditions are dusty, long sleeved clothing, coveralls and light duty gloves are recommended to protect the skin. If conditions are dusty, tight fitting goggles are required to protect the eyes from the abrasive dust.

IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Light Yellowish/ Brown Solid Powder

ODOR: Earthy

TASTE: NA

VAPOR PRESSURE: NA

ODOR THRESHOLD: NA

VAPOR DENSITY: NA

pH: NA

SPECIFIC GRAVITY: 1.76

MELTING POINT: NA

SOLUBILITY(IES): Insoluble

INITIAL BOILING POINT: NA

VOLATILITY: NA

BULK DENSITY: 109.8

DISPERSION: Not dispersed in water.

WATER/ OIL
DISTRIBUTION: NA

X. STABILITY AND REACTIVITY

STABILITY: The product is stable

INSTABILITY

TEMPERATURE:	NA
CONDITIONS OF INSTABILITY:	No additional information
LIST OF INCOMPATIBLE MATERIALS:	No additional information
CORROSIVITY:	Low hazard for typical handling.

XI. TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE:	Inhalation, Ingestion, Eyes, Skin
EFFECTS OF EXPOSURE:	<p>Acute effects: Temporary discomfort or mechanical irritation to upper respiratory tract, if protective breathing equipment is not used. No adverse effects expected if ingested. No adverse effects expected if it comes into contact with the eye. High dust concentrations may cause mechanical irritation to the eye. No adverse effects expected with skin contact.</p> <p>Chronic effects: Long term inhalation of product without protective breathing equipment may lead to the development of silicosis. No adverse effects expected if ingested. Eye contact: no adverse effects expected. High dust concentrations may cause mechanical irritation. Skin: No adverse effects expected.</p>
MEDICAL CONDITIONS AGGRAVATED:	Exposure without protective breathing equipment may aggravate certain pre-existing upper respiratory disorders, such as bronchitis or asthma.

XII. ECOLOGICAL INFORMATION

NO INFORMATION AVAILABLE

XIII. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL OR RECYCLING:	Recover and place material in a suitable container for intended use or disposal. Consult Federal, State and Local regulations on the appropriate disposal of the product.
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XIV. TRANSPORT INFORMATION

NO INFORMATION AVAILABLE

XV. REGULATORY INFORMATION

NO INFORMATION AVAILABLE

XVI. OTHER INFORMATION

Date Prepared: 7/1/2015

IMPORTANT:

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