

Vital Earth's®

Seabird Guano Liquid Grow

4-3-4

Material Safety Data Sheet

I. PRODUCT NAME/TRADE NAME:

Vital Earth's® Seabird Guano Liquid Grow

4-3-4

Sizes: 1 qt./0.9461 L, 1 gal./3.7843 L,

2.5 gal./9.4607 L, 5 gal./18.921 L,

250 gal./946.07 L

EPA REGISTRATION #: none

CHEMICAL NAME/COMMON NAME:

Organic Liquid Solution/Organic Liquid Grow

Solution

WHIMIS Classification of Product:

Product use:

Emergency Telephone Number:

503-493-2784

Information Telephone Number:

503-493-2784

Date Prepared:

01/15/08

Is not a controlled product and is not covered
under Hazardous Product Act and WHIMIS.

Fertilizer (Natural)

II. HAZARDOUS INGREDIENTS

| Ingredient | CAS # | LD50 | LC50 | OSHA PEL | ACGIH TLV |
|------------|-------|------|------|----------|-----------|
| NA | NA | NA | NA | NE | NE |

III. PHYSICAL/CHEMICAL CHARACTERISTICS

| | | | |
|-----------------------------|-------------------------------|---|-----|
| Boiling Point: | NE | Specific Gravity (H ₂ O=1): | 1.2 |
| Vapor Pressure (mmHg): | NA | Melting Point: | NA |
| Vapor Density (Air = 1): | NE | Freezing Point: | NA |
| % Volatiles by vol.: | NE | Evaporation Rate (Butyl Acetate + 1): | NA |
| Solubility in Water: | Soluble/Greater than 95% | Density: | NA |
| Appearance and Odor: | Brown liquid, sweet fish odor | | |
| Flash Point/Method: | NA | | |

pH: 6.5-7.5

IV. FIRE AND EXPLOSION HAZARD DATA

| | | | |
|--------------------------------------|--|--------------------------------|--|
| Flash point (Method Used): | NA | Flammable Limits: | This material is slightly combustible due to residual protein. Direct flame results in short lived sustained flame. Dust explosion conditions unknown. |
| Extinguishing Media: | Water, Carbon Dioxide, Dry Chemicals | | Use water to extinguish. |
| Hazardous Combustion Products: | Dioxides from fire | | |
| Sensitivity to Mechanical Impact: | NA | LEL: | NA |
| | | UEL: | NA |
| Sensitivity to Static Discharge: | NA | Conditions of Flammability: | NA |
| Auto Ignition (°C): | NA | | |
| Special Fire Fighting Procedures: | Treat as class A. Fight fire upwind. Wear positive pressure self-contained breathing | | |

apparatus and full protective equipment. Do not breathe smoke or spray mist. Avoid fallout and runoff. Dike to prevent entering drains, sewers, or water courses. Evacuate people downwind from fire.

Unusual Fire and

Explosion Hazards: Avoid production of an extremely dusty air space in areas of local burning or electrical sparking.

V. REACTIVITY DATA

Chemical Stability: Stable

Incompatibility (Products to Avoid): Fire, Water

Hazardous Decomposition or Byproducts: CO_x, SO_x

Hazardous Polymerization: Will Not Occur

Condition to Avoid: Exposure to heat and acid

Reactivity, and under what conditions: NA

VI. TOXICOLOGICAL PROPERTIES/HEALTH HAZARD DATA

Route(s) of Entry

Skin: Wear proper personal protective equipment to reduce skin exposure.

Ingestion: Do not ingest. Wash hands and face thoroughly before eating, drinking or smoking.

Inhalation: Wear proper respiratory protection for the exposures encountered.

Eye Contact: Can cause eye irritation. Wear proper eye protection to reduce exposure. If contact occurs, flush eyes with water for a minimum of 15 minutes.

Health Hazard (Acute of Chronic): NA

| | | | |
|------------------|-----------------|------------|------|
| Carcinogenicity: | IARC monographs | NTP | OSHA |
| | None Known | None Known | None |
| | Known | | |

Signs and Symptoms of Exposure:

NA

Irritancy of product: NA

Sensitization to Product: NA

Teratogenicity: None

Reproductive Toxicity: None

Mutagenicity: None

Synergistic Products: None

VII. PRECAUTION FOR SAFE HANDLING AND USE

Personal Protective Equipment

Respiratory: When dust is present, use a NIOSH/MSHA approved half- or a full-face respirator with a High Efficiency Particle Aerosol (HEPA) cartridge

| | |
|--|--|
| Skin: | Wear proper personal protective equipment to reduce skin exposure. |
| Eyes: | Use appropriate eye protection e.g.: goggles, to minimize contact with dust. |
| Other: | Wear sturdy work clothing and footwear for the specific application. |
| Environmental Hazards: | Dike area to prevent entering drains, sewers or water courses. |
| Engineering controls: | In restricted spaces, use effective ventilation, e.g. Local Air Ventilation. Do not permit excessive accumulation of dust in work areas. Best practice is to clean up with a vacuum equipped with a HEPA filter. |
| Steps to be taken in case material is released or spilled: | If uncontaminated, collect for reuse or disposal. Use a clean up system which does not create dust, e.g. a vacuum equipped with a HEPA filter. If contaminated or not required for reuse, dispose in approved landfill in accordance with local regulations. |
| Waste Disposal Method: | |

If uncontaminated, dispose as a non-metallic mineral. If contaminated, use appropriate method for containment with applicable local regulation(s).

Precaution to be taken in handling and storing:

Product should be kept in a dry place. Avoid creation of respirable dust if possible. Protect workers as above. Use effective ventilation and dust collection. Avoid eye and skin contact with wet product during use.

Special shipping information:

NA

VIII. CONTROL/FIRST AID MEASURES/HEALTH PRECAUTION DATA

Respirator Protections:

Use only NIOSH/MSHA - approved respiratory protection for nuisance particles up to 10 times the PEL/TLV. Positive pressure self-contained breathing apparatus should be used for confined space entry and high exposures above the nuisance particulate PEL/TLV.

Ventilation:

Local exhaust/general ventilation to control nuisance dust.

| | |
|---|---|
| Protective/Work Gloves: | Rubber, latex, vinyl, or other impervious gloves recommended |
| Eye Protection: | Safety Goggles or glasses with side shields and brow protection Recommended. |
| Other Protective Clothing or Equipment: | Not required |
| Work / Hygienic Practices: | Wash to remove dust after use |
| Eyes: | Flush with tempered water for at least 20 minutes. Obtain medical attention |
| Skin: | Wash with soap and water. For caustic burns to skin consult a doctor. |
| Ingestion: | Drink large amounts of water. Do not induce vomiting. Seek immediate medical attention. |
| Gross inhalation of dust: | Remove victim to fresh air and administer CPR if necessary. |

IX. SPECIAL PRECAUTIONS

Keep out of reach of children. Do not wash down storm or sanitary sewer system. Read and follow all label instructions.

X. REGULATORY DATA

SARA HAZARD CLASS: Acute

SARA 313: NO

SARA 302: NO

TPQ:

CERCLA: NO

RQ:

RCRA: NO

NFPA HAZARD RATING:

Health: [1]

Fire: [2]

Reactivity: [0]

Special: []

NFPA HAZARD RATING SCALE:

0 = Minimal 3 = Serious

1 = Slight 4 = Severe

2 = Moderate

HMIS CODES:

Health: [1]

Fire: [2]

Reactivity: [0]

HMIS HAZARD RATING SCALE:

0 = Minimal 3 = Serious

1 = Slight 4 = Severe

2 = Moderate

FDA: NA

CPSC: NA

| | | | |
|-------|---------------|---------------|------|
| USDA: | NA | TSCA: | NA |
| DOT: | Non-Regulated | Hazard Class: | None |

Proper Shipping Name: Organic solid

XI. PREPARATION DATE OF MSDS

| | |
|--------------|---------------------------|
| Prepared by: | Conscious Earthworks, LLC |
| Phone: | 503-493-2784 |
| Date: | 01/15/08 |

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