



# Safety Data Sheet

## Section 1: Identification

<b>Product Name:</b>	Down To Earth Langbeinite 0-0-22	<b>Manufacturer:</b>	Down To Earth Distributors, Inc.
<b>Common Name(s):</b>	potassium magnesium sulfate	<b>Physical Address:</b>	3030 Judkins Road Eugene, OR 97403
<b>Product Code:</b>	N/A	<b>Mailing Address:</b>	PO Box 1419 Eugene, OR 97440
<b>CAS #:</b>	14977-37-8	<b>Telephone Number:</b>	541-485-5932
<b>Recommended Use:</b>	Fertilizer	<b>Emergency #:</b>	800-234-5932
<b>Restrictions:</b>	N/A		

## Section 2: Hazard Identification

**Hazard Group:** Health  
**Hazard Classes:** Potential eye irritant and skin irritant (Category 2A and 3)

### Hazard Statements

- H303: May be harmful if swallowed
- H315: Causes skin and eye irritation (especially in open wounds)
- H319: Can cause serious eye irritation
- H333: May be harmful if inhaled
- H335: May cause respiratory irritation



### Precautionary Statements

#### Prevention

- P264: Wash skin thoroughly after handling
- P261: Avoid breathing dust
- P280: Wear protective clothing; 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.

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## Section 3: Composition/Information on Ingredients

**Ingredients:** Potassium Magnesium Sulfate (Langbeinite), Sodium Chloride  
**Formula:**  $K_2SO_4 \cdot 2MgSO_4$   
**CAS #:** 14977-37-8, 7647-14-5  
**NIOSH Registry #:** Not Registered

## Section 4: First-Aid Measures

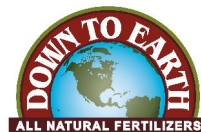
**Inhalation:** Remove person to fresh air and keep comfortable for breathing. If respiratory distress continues, seek medical attention.  
**Skin Irritation:** Wash with plenty of soap and water. If irritation persists, seek medical attention.  
**Eye:** Rinse cautiously with water for several minutes. Flush with water for at least 15 minutes. If pain and 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.



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### 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.

### 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

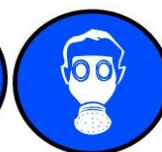
Ventilation: Ensure workspace is well-ventilated



Safety Glasses



Gloves



Particle Mask / Respirator

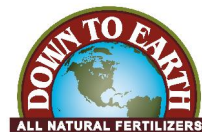
### Section 9: Physical and Chemical Properties

<b>Appearance:</b>	White to pink crystalline granules	<b>Melting Point:</b>	972° C (1700° F)
		<b>Freezing Point:</b>	Unknown
<b>Flammability Limits:</b>	Unknown	<b>Solubility in Water:</b>	24.4% w/w
<b>Odor:</b>	Mild odor	<b>Initial Boiling Point:</b>	1500° C (sublimates)
<b>Odor Threshold:</b>	Unknown	<b>Boiling Range:</b>	1420 - 1500° C
<b>Vapor Pressure:</b>	Unknown	<b>Flash Point:</b>	Unknown
<b>Vapor Density:</b>	Unknown	<b>Evaporation Rate:</b>	N/A
<b>pH:</b>	7.0-8.0	<b>Flammability:</b>	Unknown
<b>Relative Density:</b>	85-95 lb/ft <sup>3</sup>	<b>Viscosity:</b>	Unknown

### Section 10: Stability and Reactivity

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

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## 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 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:** Currently unknown

**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

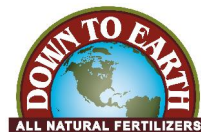
**Transport Hazard Class:** Non-hazardous

**Environmental Hazards:** None known

**Guidance on Bulk Transport:** Use best known practices when shipping in bulk

**Special Precautions:** None known

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## 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.

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**Date of Revision:** 04/12/2016