

# Z-HUME

## Material Safety Data Sheet

### Section 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

**Source:** International Ag Labs, 800 W. Lake Ave., PO Box 788, Fairmont, Minnesota 56031  
**Product Name:** Z-Hume CAS #  
**Ingredients:** Liquid Humate 68514-28-3  
Z-Hume is a garden nutrient drench designed to decompose residue.  
**Emergency Phone:** 507-235-6909

### Section 2 HAZARDOUS IDENTIFICATION

**Health Effects:**  
**Ingestion** Small quantities not harmful.  
**Eye** Mild irritant, similar to soap.  
**Skin Contact** Mild irritant, slippery feel, similar to soap.  
**Inhalation** Mild irritant. Used as diluted spray.

### Section 3 FIRST AID MEASURES

**Ingestion:** Drink copious amounts of water. Seek medical advice.  
**Eye Contact:** Immediately irrigate with water or neutral saline solution for 15 minutes. Consult a physician.  
**Skin Contact:** Wash affected area with mild soap and water. Get medical attention if irritation persists or develops.  
**Inhalation:** Move to fresh air.  
**First Aid Facilities:** Water or neutral saline solution for eye wash.  
**Advice to Doctor** Treat symptomatically.

### Section 4 FIRE FIGHTING MEASURES

**Fire/Explosion Hazard:** If safe to do so, move undamaged containers from fire area.  
**Suitable extinguishing media:** Use extinguishing media suitable for surrounding fire situation.  
**Precautions for Fire Fighters and Special Protective Equipment:** Fire fighters to wear self-contained breathing apparatus (SCBA) in confined spaces, in oxygen deficient atmospheres or if exposed to products of decomposition. Full protective clothing is also recommended.

### Section 5 ACCIDENTAL RELEASE MEASURES

**Emergency Procedures:** Very low hazard product. If product spills onto floors it will represent a slip hazard, walk cautiously. Wear protective equipment to prevent skin and eye contact, as outlined under personal protection in this MSDS.  
**Methods and Materials for Containment and Cleanup Procedures:** Assess situation, if possible, use a wet-dry vacuum system and collect all the spill, if the site of the spill is not contaminated with other chemicals, then consider using the collected spill, suitably diluted on vegetation, plants and trees. Otherwise, if a large spill occurs, bund area, throw absorbent (diatomaceous earth or other inert material) on top of spill, ALLOW TO ABSORB, then shovel up and seal in properly labeled containers for disposal. Prevent direct discharge into watercourses or lakes due to high BO D. If this does occur, inform Local Authorities at once.

### Section 6 HANDLING AND STORAGE

**Precautions:** Very low hazard product, do not store for long periods at -10°C - 40°C. Store in a cool place and out of direct sunlight. For further information please refer to the Engineering Controls of this MSDS.

**Storage:** Keep containers tightly closed, when not using this product. Store in original packages as approved by manufacturer. Avoid microbiological contamination.

## Section 7 **EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Standards:** No exposure standards have been assigned by [NOHSC] for this product or any of the components.

**Engineering Controls:** Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate.

**Personal Protection Equipment:**

**Gloves** Gloves are recommended.

**Eyes** Safety glasses with side shields.

**Respiratory Protection** Natural ventilation is adequate.

## Section 8 **PHYSICAL AND CHEMICAL PROPERTIES**

<b>Boiling Point:</b>	Unknown	<b>Solubility in Water:</b>	Complete
<b>Density:</b>	N/A	<b>Vapor Pressure, mm Hg:</b>	Not applicable
<b>Flashpoint:</b>	N/A	<b>Reaction with Water:</b>	None
<b>pH:</b>	>8.0	<b>Appearance:</b>	Black liquid

## Section 9 **STABILITY AND REACTIVITY**

**Stability (Normal Conditions):** Stable under normal conditions of use and storage.

**Hazardous Polymerization:** Will not occur.

**Materials to Avoid:** Neutralization reaction will occur if exposed to acidic materials.

**Hazardous Decomposition Products:**

At extreme temperatures, CO, an oxidation product, may be evolved.

**Microbiological Stability:** Stable unless diluted with >5% water when yeast, mould and some harmless bacterial (e.g. Lactobacillus spp.) growth may occur in warm temperatures. Pathogens will not grow in undiluted product due to its high osmotic pressure and low water activity.

## Section 10 **TOXICOLOGY INFORMATION**

No adverse health effects are expected, if the product is handled in accordance with the Material Safety Data Sheet and the product label. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are:

**Acute Health Effects:**

**Ingestion** Swallowing large quantities may cause irritation, leading to pains in the stomach, nausea, vomiting and possible diarrhea.

**Eyes** May cause mild irritation to the eyes.

**Skin** May cause mild irritation to the skin.

**Inhalation** Mists from the product may cause mild irritation.

**Chronic Health Effects:**

Prolonged exposure may cause drying and potential redness of the skin in some susceptible individuals.

## Section 11 **ECOLOGICAL INFORMATION**

There is no ecological information available for this product, however large quantities should not be discharged into drains, sewers or waterways. Due to its high BOD, accidental discharge of large quantities into rivers or lakes will cause temporary algal growth ('bloom') and dissolved oxygen reduction with possible deleterious effects on fish.

## Section 12 **DISPOSAL CONSIDERATIONS**

Z-Hume is non-toxic and safe to use as recommended by the manufacturer's instructions. Instead of disposal,

consider the environment and use to nurture all vegetation and trees.

Section 13

**TRANSPORT INFORMATION**

<b>Shipping Name:</b>	Z-Hume	<b>C.A.S. Number:</b>	N/A
<b>Hazard Class:</b>	None	<b>D.O.T. Number:</b>	None
<b>Reportable Quantity (RQ):</b>	None	<b>Haz Waste No:</b>	None
<b>Labels Required:</b>	None	<b>EPA Req1st No:</b>	None
<b>Placard:</b>	None		

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