

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Mag-Ko-Sul™
Product Number: FFN-00685
Other Information: 0-0-4

Supplier Information: Verdesian Life Sciences, U.S., LLC
1001 Winstead Drive, Suite 480
Cary, NC 27513
1-800-868-6446

Emergency Number: 1-800-535-5053 INFOTRAC

2. HAZARDS IDENTIFICATION**CLASSIFICATION**

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENTS	CAS NO.	% BY WEIGHT
Magnesium*	Proprietary	Proprietary
Soluble Potash*	Proprietary	Proprietary
Sulfur*	Proprietary	Proprietary

*Ingredients derived from langbeinite.

If Chemical Name/CAS No is "Proprietary" and/or Weight % is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**First Aid Measures:**

General Advice: Provide this SDS to medical personnel for treatment.

If in Eyes: Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

If Swallowed: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.

If on Skin or Clothing: Wash with soap and water.

If Inhaled: Move person to fresh air.

Most important symptoms and effects: No information available.

Recommendations for immediate medical care and special treatment, if needed:

Note to Physician: Treat symptomatically

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use extinguishing media suitable for surrounding materials. Dry chemical, carbon dioxide, or foam.

Unsuitable extinguishing media: Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the substance/mixture during a fire: May produce gases such as oxides of carbon.

Protective equipment and precautions for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain.

Methods for Containment: Prevent further leakage or spillage if safe to do so. Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal.

Methods for Clean-Up: If wet, pump any free liquid into an appropriate closed, labeled container. Decontaminate tools and equipment following cleanup. See Section 13: DISPOSAL CONSIDERATIONS for more information.

7. HANDLING AND STORAGE**Precautions for Safe Handling**

Handling: Avoid contact with eyes. Do not ingest. If swallowed, seek immediate medical assistance. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/Personal Protective Equipment (PPE) immediately if product gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Conditions for safe storage, including any incompatibilities

Storage: Store locked up in original properly labeled container in a cool, dry secured warehouse or storage building. Containers should be opened in well-ventilated areas. Keep container tightly sealed when not in use. Do not contaminate water, food or feed by storage or disposal.

Incompatible Materials: Strong oxidizing agents; bases; acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Guidelines:**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Controls:

Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation.

Personal Protective Equipment:

Eye/Face Protection: To avoid contact with eyes, wear chemical goggles or shielded safety. An emergency eyewash or water supply should be readily accessible to the work area.

Skin and Body Protection: An emergency shower or water supply should be readily accessible to the work area.

Respiratory Protection: Not normally required. If vapors or dusts exceed acceptable levels, which cause exposures in excess of the guidelines listed in Section 8, respiratory protection may be needed (e.g., air-purifying respirator with a high efficiency particulate filter) and must comply with the U.S. Federal OSHA Standard (29 CFR 1910.134) and applicable U.S. State regulations.

General Hygiene Considerations: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) Do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Tan liquid
Odor:	Musty
Odor threshold:	No data available
pH:	3.1
Melting point/freezing point:	No data available
Initial boiling point and boiling range	212° F (100° C)
Flash point:	9034° F (5001° C)
Evaporation rate:	No data available

Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	No data available
Solubility(ies):	Miscible
Partition coefficient: n-octanol/water:	No data available
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available

Note: Physical data are typical values, but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.

10. STABILITY AND REACTIVITY

Reactivity: Not reactive

Chemical Stability: This material is stable under normal handling and storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Excessive heat. Do not store near heat or flame.

Incompatible Materials: None known.

Hazardous Decomposition Products: May produce gases such as oxides of carbon. May produce gases such as oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Potential Health Effects:

Likely Routes of Exposure: Inhalation, ingestion, eye and skin contact.

Eye Contact: Specific test data for the substance or mixture is not available.

Skin Contact: Specific test data for the substance or mixture is not available.

Ingestion: Specific test data for the substance or mixture is not available.

Inhalation: Specific test data for the substance or mixture is not available.

Medical Conditions Aggravated by Exposure: No information available.

Toxicological Data:

Specific test data for the substance or mixture is not available.

Subchronic (Target Organ) Effects: No data available.

Carcinogenicity / Chronic Health Effects: No data available.

Reproductive Toxicity: No data available.

Developmental Toxicity: No data available.

Germ Cell Mutagenicity: No data available.

Description of Symptoms: Please see Section 4 of this SDS for symptoms.

Assessment Carcinogenicity: None listed with ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

The environmental impact of this product has not been fully investigated.

Persistence and Degradability: No data available

Bioaccumulation: No data available

Mobility in Soil: No data available

Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATIONS**Waste Disposal Method:**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Container Disposal Method:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORTATION INFORMATION

Follow the precautions indicated in Section 7: HANDLING AND STORAGE of this SDS.

DOT:

Non Regulated

IMDG:

Non Regulated

IATA:

Non Regulated

15. REGULATORY INFORMATION**U.S. FEDERAL REGULATIONS**

TSCA Inventory: Listed

SARA Hazard Notification/Reporting:**Hazard Categories under Criteria of SARA Title III Rules (40 CFR Part 370.66):**

Immediate and Delayed

Section 313 Toxic Chemical(s):

This product does not contain any chemicals which are subject to the reporting requirements of SARA 313 of Title III (Superfund Amendments and Reauthorization Act of 1986 (SARA)) and Title 40 of the Code of Federal Regulations, Part 372.

Reportable Quantity (RQ) under U.S. CERCLA:

None

RCRA Waste Code:

None

State Information:

Other state regulations may apply. Check individual state requirements.

California Proposition 65: Not Listed.

16. OTHER INFORMATION**National Fire Protection Association (NFPA) Hazard Rating:**

Health Hazards: 0 **Flammability:** 0 **Instability:** 0 **Special Hazards:** N/A

HMIS

Health Hazards: 0 **Flammability:** 0 **Physical Hazards:** 0 **Personal Protection:** X

Hazards Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Key to abbreviations:

ACGIH = America Conference of Governmental Industrial Hygiene

IARC = International Agency for Research on Cancer

N/A = Not applicable

NDA = No data available

NE = Not Established

NTP = National Toxicology Program

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limits

TWA = Time Weighted Average

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a 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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