

The Andersons K-mate Potassium Humate Granules

1. PRODUCT and COMPANY INFORMATION

Product Identifier: **ORGANIC POTASSIUM HUMATE GRANULES**

Also known as: **Soluble Humic Acid Granules, Soluble Potassium Humate Granules-Ag size**

CAS# 68514-28-3

Supplier's Name:

The Andersons Lawn Products

PO Box 119

Maumee, Ohio 43537

Emergency Telephone: 904-329-1012

2. COMPOSITION/ INFORMATION on INGREDIENTS

Product Description: Granular soil amendment derived from high quality coal.

Inert Ingredients: May contain naturally occurring micro-nutrients, silica and/or moisture.

3. HAZARDS IDENTIFICATION (assessment)

Important hazards: None

Irritability of Product: Dust may cause slight irritation. Skin contact and ingestion are not considered harmful or hazardous.

Risk Phrases: Inhalation and eye contact may cause slight irritation.

Safety Phrases: In case of contact with eyes, flush with water. After contact with skin, wash with water and soap if necessary. If ingested, rinse mouth and drink plenty of water. Under normal use conditions of the product, no personal protective equipment is required. Protective clothing and/or eye protection may be used in industrial/manufacturing environments.

4. FIRST AID MEASURES

Symptoms and Effects: No typical symptoms and effects known.

General: Product not known to cause any health issues that require first aid. In all cases of doubt or when experiencing symptoms, seek medical attention.

Inhalation: This product contains minimal dust. Inhalation of dust alone is unlikely to result in an emergency situation. If necessary, use respiratory protection.

Ingestion: Rinse mouth. Dilute the stomach contents by giving large amounts of water or milk.

Eyes: Hold eye open and flush with water for 15-20 minutes to remove any dust particles. Remove contact lenses if present, and after the first 5 minutes, then continue rinsing eye.

Skin: Product is not known to cause skin irritation. Normal contact with skin and clothing is not considered dangerous. Wash skin and clothing with water and/or soap to remove the product. 2

5. FIRE and EXPLOSION HAZARD

Flammability: Not considered a fire hazard.

Means of Extinction: Not applicable.

Special Procedures: Not applicable.

Dust Explosion Hazard: Not considered an explosion hazard.

Flash Point: Not applicable.

Minimum Explosive Hazard Not considered an explosion hazard.

MIE: Not applicable.

Auto Ignition Temperature: Not applicable.

Flammable Limits in % by volume: Not applicable.

Means of Extinction: Use media appropriate for surrounding fire.

The Andersons K-mate Potassium Humate Granules

Hazardous Combustion Products: No information available.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: The usual precautions for handling organic bio-stimulants should be observed.

Environmental Precautions: No environmental hazards are associated with this product.

Prevent from entering sewers, waterways or low areas.

Spill Procedure: Take steps to control product discharge into the environment. Notify appropriate authorities if required and arrange for the recovery of spilled material.

Methods for Clean-up: Dilute and wash away with large amounts of water.

Additional Advice: Dispose of in accordance with local regulations.

7. HANDLING and STORAGE

Handling Procedures: Minimize generation of dust during handling. In enclosed environments, appropriate ventilation is recommended.

Fire and Explosion: Be aware of possible dust explosion hazards at more than 500 C (932 F).

Storage Requirements: Store in a dry location. Suitable for general storage areas. Keep product container closed and covered if possible. Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation and confinement of handling systems may be required to control exposure to any dust.

Exposure Limits: No exposure limit has been established.

Personal Protection Equipment: Under normal use conditions, application of this product should not require PPE. In industrial process settings, respirator equipped with a dust filter, should be worn when exposed to the product under dust generating conditions. Disposable units are normally satisfactory for short-term or intermittent exposure. The use of additional personal protective equipment is optional. Safety goggles, coveralls and protective footwear may be worn when handling bulk quantities of the product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION - Continued

Respiratory Protection: Read above in PPE. If using it in an enclosed area, ventilation is recommended.

Hand Protection: Gloves may be worn but not required.

Eye Protection: Eye protection may be worn but not required.

Skin and Body: No specific recommendations.

Hygiene Measures: Wash hands and face after handling the product. Wash clothing to avoid staining.

9. PHYSICAL and CHEMICAL PROPERTIES

Appearance: Black Granular

Physical State: Solid

Explosive Properties: N/A

Explosion Limits: N/A

Odor: Odorless

Odor Threshold: Not applicable

Vapor Pressure: Negligible

Vapor Density: Not applicable

Evaporation Rate: Not applicable

The Andersons K-mate Potassium Humate Granules

Melting Point: > 3000 C

Oxidizing Properties: None Known

Moisture: ~10%. May vary depending on humidity and temperature

Bulk Density: 650 kg/cubic-mtr

Solubility in Water: Soluble

Solubility in Other Solvents: Not determined

pH Value: 9.25 in a 14.06% solution

10. STABILITY and REACTIVITY

Chemical Stability: The product is stable under ambient conditions.

Incompatibility with Other Substances: Strong Acids. Powerful oxidizing agents can cause gassing when mixed with product.

Conditions of Chemical Instability: Not applicable.

Conditions of Reactivity: None.

Hazardous Decomposition Products: Not applicable.

11. TOXICOLOGICAL INFORMATION

Route of Entry: Inhalation, Ingestion.

Effects of Acute Exposure to Product: Airborne dust particles may cause irritation to nose, throat, eyes and lungs.

Effects of Chronic Exposure to Product: Normal use of this product is not known to cause any health issues. Repeated inhalation is not recommended.

Irritability of Product: Skin contact is not considered hazardous

Sensitization to Products: Negligible Carcinogenicity: Not considered a human carcinogen Teratogenicity: Not established

Reproductive Toxicity: Not established Mutagenicity: Not established

Synergistic Products: Not established

12. ECOLOGICAL INFORMATION

Eco-toxicity: No Data Available. Not considered toxic.

13. DISPOSAL CONSIDERATIONS

Product: Dispose of in accordance with applicable environmental regulations, including local requirements.

Spilled Material: Small: Dilute and wash away with water.

Large: Sweep/ Scoop material, collect and containerize.

14. TRANSPORT INFORMATION

DOT: Not classified * There are no transport regulations or restrictions for this product.

15. REGULATORY INFORMATION

None applicable 5

16. OTHER INFORMATION

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