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ISO 9001: 2015

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Potassium alginate
Code P 2109

2. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT (S): CAS NUMBER: %:
Potassium Alginate 9005-36-1 > 60
Particulates, NOC NE < 30

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: No health hazards known. For bulk size, powdered material may form explosive dust-air mixtures.
POTENTIAL HEALTH EFFECTS ??

ROUTES OF EXPOSURE: EYE ?? No more than slightly irritating based on toxicity studies on sodium alginate, a closely related material. The dry powder may cause foreign body irritation in some individuals.

SKIN - No more than slightly toxic or slightly irritating based on toxicity studies on sodium alginate, a closely related material. The dry powder may cause foreign body irritation in some individual.

INHALATION ?? Inhalation of the dust may cause coughing and sneezing.

INGESTION ?? Is not toxic if swallowed based on toxicity studies on sodium alginate, a closely related material. No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed.

4. FIRST AID MEASURES

EYES: Flush eyes with copious amounts of water.

SKIN: Wash with soap and water.

INHALATION: If inhaled, remove to fresh air. If not breathing or if breathing is difficult, give artificial respiration or oxygen by trained personnel. Seek medical attention.

INGESTION: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

FLASH POINT: NA

EXTINGUISHER METHOD: In case of fire, use water, foam and dry powder.

UNUSUAL FIRE AND EXPLOSION HAZARDS: For bulk size. Powdered material may form explosive dust-air mixtures.

FIRE FIGHTING EQUIPMENT: Fire fighters and others exposed to products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Use appropriate protective equipment.

Procedure for Cleaning/Absorption: Scoop up and remove. Minimize dust generation and accumulation. Water wash down not recommended.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in cool dry place. Keep container closed to prevent water absorption and contamination. Keep away from heat, sparks, and flame. Minimize dust generation and accumulation. Wash thoroughly with soap and water after handling.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

EYE PROTECTION: Safety glasses.

SKIN PROTECTION: Use gloves as a standard industrial handling procedure. Wash hands and contaminated skin thoroughly after handling.

RESPIRATORY: For bulk size. Avoid breathing dust. Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure limits are exceeded.

VENTILATION: Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits. The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment.

OCCUPATIONAL EXPOSURE LIMITS:

HAZARDOUS INGREDIENT (S) - None

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Powder

Appearance (Colour) :Yellow to pale yellow
Fine Powder ?? tan Slight Approx. neutral (1% solution)
SPECIFIC GRAVITY: BOILING POINT: MELTING POINT/FREEZING POINT:
N/A N/A N/A
VAPOR PRESSURE: SOLUBILITY:
N/A Soluble in water

10. STABILITY AND REACTIVITY

STABILITY: Product is stable under normal conditions of storage and handling. Store in a cool, dry place to maintain product performance.

CONDITIONS TO AVOID: Minimize dust generation and accumulation.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide. Carbon monoxide.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

TOXICITY TEST: Acute Oral LD50 (mg/kg): >5,000 (rat)

SKIN IRRITATION: Non-irritating to rabbit skin.

EYE IRRITATION: Non-irritating to rabbit eye.

Other information: No adverse effects were observed in long-term feeding studies with rats (up to 1,000 mg/kg/day) or dogs (up to 1,000 mg/kg/day).

12. ECOLOGICAL INFORMATION

Biodegradability: Potassium alginate is biodegradable: BOD5: Approx. 330mg O₂/g; COD: Approx. 700 mg O₂/g

Aquatic Toxicity: No data is available on the adverse effects of this material on the environment.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Federal, state and local disposal laws and regulations will determine the proper waste disposal /recycling/reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected.

14. TRANSPORTATION

This product is not hazardous under the applicable DOT, ICAO/IATA, or IMDG regulations.

15. REGULATORY INFORMATION

For Potassium Alginate:

TSCA Inventory List: This product and/or its components is listed on TSCA.

WHMIS Ingredient Disclosure List: None of the components of this product is listed on WHMIS Ingredient Disclosure List.

Canada DSL Inventory List: This product and/or its components is listed on DSL.

Canada NDSL Inventory List: This product and/or its components is listed on NDSL.

EU EINECS List: This product and/or its components is not listed on or exempt from EINECS.

Section 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.