Section 1 Chemical Product and Company Identification

HOME SCIENCE TOOLS

665 Carbon Street Billings, MT 59102 800-860-6272 www.homesciencetools.com

Product

CHEMTREC 24 Hour Emergency USA
Phone Number (800) 424-9300
1 703-741-5500 (from anywhere in the world).
For laboratory and industrial use only.
Not for drug, food or household use.

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ALUMINUM POTASSIUM SULFATE

Synonyms Potassium Alum / Alum

Section 2 Hazards Identification

Signal word: WARNING Pictograms: GHS07 Target organs: Liver, Kidneys



GHS Classification:

Acute toxicity, oral (Category 4) Skin irritation (Category 2) Eye irritation (Category 2B)

GHS Label information: Hazard statement:

H302: Harmful if swallowed.

H315+H320: Causes skin and eye irritation.

Precautionary statement:

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P312: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or

doctor/physician if you feel unwell.

P302+P352: IF ON SKIN: Wash with plenty of water and soap.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313: If skin irritation occurs: Get medical attention. P337+P313: If eye irritation persists: Get medical attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P501: Dispose of contents/container to a licensed chemical disposal agency in

accordance with local/regional/national regulations.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / Information on Ingredients				
Chemical Name	CAS#	%	EINECS	
Aluminum potassium sulfate	7784-24-9	100%	233-141-3	
·				

Section 4 First Aid Measures

INGESTION: HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: CAUSES SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: Fire or excessive heat above 760°C (1400°F), may produce hazardous decomposition products of toxic and corrosive gases, Sulfur trioxide and Aluminum oxide. Sulfur trioxide is an oxidizing agent which supports combustion and will react with water to form Sulfuric acid.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Page E2 of E2 Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8	Exposure Controls / Personal Protection					
Exposure Limits: Chemical Name		ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Limits.	Aluminum, metal and insoluble compounds	TWA: 1 mg/m ³ Respirable fraction	TWA: 5 mg/m ³ Respirable fraction	TWA: 5 mg/m ³ Respirable fraction		

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Physical & Chemical Properties Section 9

Appearance: Solid. White crystals or powder.

Odor: No odor.

Odor threshold: Data not available.

pH: 3.5 (1% solution)

Melting / Freezing point: Loses H₂O at 93°C (199°F)

Boiling point: Data not available

Flash point: Data not available

Evaporation rate (= 1): Data not available Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): Data not available Vapor density (Air = 1): Data not available

Relative density (Specific gravity): 1.97 Solubility(ies): Moderately soluble in water. Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available

Marine pollutant: No

Viscosity: Data not available. Molecular formula: AIK(SO₄)₂•12H₂O

Molecular weight: 474.39

Section 10 Stability & Reactivity

Chemical stability: Stable Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperature and heat.

Incompatible materials: Aluminum, copper, steel, zinc, strong oxidizing agents.

Hazardous decomposition products: Oxides of sulfur, aluminum oxide, oxides of potassium.

Section 11 **Toxicological Information**

Acute toxicity: Data not available

Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available

Potential health effects:

Inhalation: Causes respiratory tract irritation. May be harmful if inhaled.

Ingestion: Harmful if swallowed. Ingestion of large amounts may cause gastrointestinal irritation.

Skin: Causes skin irritation. May be harmful if absorbed through the skin.

Eves: Causes eve irritation. May cause chemical conjunctivitis.

Signs and symptoms of exposure: To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Additional information: RTECS #: WS5690000

Section 12 **Ecological Information**

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Transport Information (US DOT / CANADA TDG) Section 14

UN/NA number: Not applicable Shipping name: Not Regulated Hazard class: Not applicable Packing group: Not applicable

Reportable Quantity: No

Exceptions: Not applicable 2016 ERG Guide # Not applicable

Section 15 **Regulatory Information**

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Aluminum potassium sulfate (CAS # 10043-67-1)	Listed	Not listed	Not listed	Listed		This product does not contain any chemicals known to the State of California to cause cancer or
						reproductive toxicity.

Section 16 Other Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook



Prepared to comply with GHS (Globally Harmonized System) and OSHA-Hazard Communication Standard 29 CFR.1910.1200, System of Classifying and Labeling of Chemicals

Material Name: Peat

Section 1: Identification

1.1 Product trade names: Sphagnum peat moss

1.2 Product Class: Natural organic planting mixes

Product Codes: N/A

CAS/EC Number: Product does not have a CAS or EC number.

Intended Use: Domestic gardening, planting mixture, and other general horticultural

purpose.

1.3 Supplier:

County Materials Corp. 205 North St., P.O. Box 100 Marathon, WI 54448-0100

General Information Telephone: (800) 289-2569

Email: riskclaimssafety@countymaterials.com

1.4 Emergency telephone:

715-223-7788

Section 2: Hazard(s) Identification

2.1 Classification:

This material is not considered hazardous according to the OSHA Hazard Communication Standard or GHS Hazard Classification and Labelling System.

2.2 Labeling:

Pictograms:

None.

Signal Word:

None.

Hazard Statements:

None.

Precautionary Statements:

P261 – Avoid breathing dusts.

P271 – Use only outdoors or in a well-ventilated area.

P280 – Wear protective gloves, protective clothing, and eye protection.

2.3 Other Hazards: This product is not classified as hazardous under normal conditions of use and storage. Exposure to entrained dusts may occur during agitation of dried product and can cause irritation to respiratory system. Contact with eyes and skin may cause irritation.

Section 3: Composition/Information on Ingredients

Components	CAS Number	EC Number	Concentration%
Peat			100

This product contains natural agricultural components and decomposed organic matter. It is not anticipated to contain quantities of naturally occurring crystalline silica at greater than 0.1%.



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Material Name: Peat

Section 4: First-Aid Measures

4.1 Description of first aid measures:

<u>Inhalation:</u> Airborne dust may be inhaled. Remove person to fresh air. Seek medical attention if breathing difficulty develops or persists.

<u>Skin Contact:</u> Wash skin with soap and plenty of water. If irritation develops or persists, seek medical attention.

<u>Eye Contact</u>: Rinse eyes thoroughly with potable water for at least 15 minutes and remove contacts if easy to do. Rinse under eyelids to remove any particles. Seek medical attention for any abrasions or if irritation develops or persists.

<u>Ingestion:</u> Rinse mouth with copious amounts of water. If the person is conscious and aware, give large amounts of water to rinse material and taste from the mouth. Never attempt to make an unconscious person drink or vomit. If the person is unconscious it may be necessary to sweep the blockage out of the mouth using a finger. Seek emergency medical attention if deemed necessary.

4.2 Most important symptoms and effects:

<u>Inhalation:</u> May cause irritation of the respiratory tract.

Skin Contact: May cause irritation.

Eye Contact: May cause irritation, abrasions, redness, and permanent eye damage.

Ingestion: Ingestion of large amounts may cause gastrointestinal irritation, choking/blockage.

4.3 Indication of any immediate medical attention and special treatment needed: See Section 4.1.

Section 5: Fire-Fighting Measures

- **5.1 Extinguishing media:** Product is not flammable. Use appropriate media for fire adjacent to product.
- **5.2 Special hazards arising from the substance or mixture:** None known.
- **5.3 Advice to firefighters:** None.

Section 6: Accidental Release Measures

- **6.1 Personal precautions:** Wear dust-mask or respirator if airborne concentrations approach or exceed exposure limits detailed in Section 8.
- **6.2 Environmental precautions:** Carefully clean up spilled material and place the material into suitable containers and hold for reuse or disposal. Dispose of the waste material in accordance with local regulations.
- **6.3 Methods and materials for containment and cleaning up:** Shovel material. Avoid sweeping to limit dried airborne dust.
- **6.4 Reference to other sections:** Use information obtained throughout this SDS to be fully prepared in case of accidental release.

Section 7: Handling and Storage

- **7.1 Precautions for safe handling:** Avoid excessive dust formation and breathing dust. Persons handling the product should wear recommended personal protective equipment (PPE) as noted in Section 8. Wash thoroughly with potable water and mild soap after handling. Use outdoors or provide ventilation.
- **7.2 Conditions for safe storage, including any incompatibilities:** Store at ambient temperatures. Clean up by shovel, wet sweeping and/or vacuuming.
- 7.3 Specific end uses: See Section 1. for intended uses.



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Material Name: Peat

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters: Note the limits shown below are for guidance only. Follow applicable regulations in your jurisdiction.

Substance Name	Source	Exposure Limit
Total Dust (or Particulates Not	ACGIH	10 mg/m ³ (I) / 3 mg/m ³ (R)
Otherwise Classified)	OSHA	15 mg/m³ (T) / 5 mg/m³ (R)
	NIOSH	10 mg/m³ (T) / 5 mg/m³ (R)

- **8.1.1 Currently recommended monitoring procedures:** No recommendations.
- 8.1.2 Exposure guidelines for air contaminants, if any: See Section 8.1
- **8.1.3 DNELS and PNECS for exposure scenarios:** Information not available at this time.
- **8.1.4 Control banding for risk management:** Use good industrial hygiene practice, wear appropriate PPE and use only in well ventilated places.
- **8.2 Exposure Controls:**
- **8.2.1 Appropriate engineering controls:** If used in an enclosed area, provide adequate local exhaust ventilation when possible to remove and prevent buildup of any dusts generated from the handling of this product. Water suppression may also be used to limit airborne dusts from dried product during application or use.
- 8.2.2 Individual protection methods: Use good industrial hygiene practices in handling this material. Eye wash stations should be available. Wash exposed skin with potable water and mild soap after use. If any irritation or redness is noted, treat symptomatically or consult a doctor immediately. Wear gloves, safety glasses/goggles and protective clothing. In case of eye contact, flush with plenty of clean, potable water for at least 15 minutes. Remove contacts if easy to do so. Seek medical attention if irritation occurs. Avoid dust inhalation and direct contact with skin and eyes. Wash contaminated skin before eating, drinking or smoking.

8.2.3 Personal Protective Equipment:

<u>Eye/Face:</u> Use appropriate eye protection: glasses with side shields or goggles.

<u>Skin:</u> Avoid contact by covering skin with protective clothing. Wear gloves when handling the product. Wear eye protection. Wash exposed skin thoroughly with potable water and mild soap.

<u>Respiratory:</u> If airborne concentrations are above the applicable exposure limits, use NIOSH-approved respirator if qualified.

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Material Name: Peat

Section 9: Physical and Chemical Properties

Physical State:Color:

Combined blend of material Varying brown/black shades

Odor: Earthy

Odor Threshold:

Melting Point:

Freezing Point:

Initial Boiling Point:

Flammability (solid, gas):

Lower and Upper Explosion

Not applicable

Not applicable

Not applicable

Not applicable

Limits/Flammability Limit:

Flash Point: Non-flammable
Auto-Ignition Temperature: Not applicable
Decomposition Temperature: Not evaluated

pH: 5 - 7

Kinematic Viscosity:

Solubility:

Partition Coefficient:

Vapor Pressure

Density (and/or Relative Density):

Relative Vapor Density:

Particle Characteristics:

Not applicable
Not applicable
Not evaluated
Not applicable
Variable sizes

Section 10: Stability and Reactivity

10.1 Reactivity: None known.

- **10.2 Chemical stability:** Stable under normal conditions of storage and use.
- 10.3 Possibility of hazardous reactions: Avoid contact with powerful oxidizing agents.
- **10.4 Conditions to avoid:** Avoid dust concentrations above permissible exposure limits.
- **10.5 Incompatible materials:** Incompatible materials and possible hazardous reactions are detailed in Section 10.3.
- **10.6 Hazardous decomposition or byproducts:** Highly improbable. Hazardous polymerization will not occur.

Section 11: Toxicological Information

11.1 Information on toxicological effects:

Acute Exposure and Symptoms:

<u>Inhalation:</u> May cause irritation of the respiratory system.

Skin Contact: May cause irritation.

Eye Contact: May cause irritation, abrasions, redness, and permanent eye damage.

Ingestion: Ingestion of large amounts may cause gastrointestinal irritation, choking/blockage.

Chronic Exposure:

Prolonged exposure to dust may cause irritation to the respiratory tract, inflame or sensitize the nose, throat and lungs resulting in illnesses such as asthma or pneumonia.

Numerical Measures of Toxicity

There no numerical measurers of toxicity available for the product at this time.



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Material Name: Peat

Section 11: Toxicological Information

Component Carcinogenicity

This product is not a known or suspected carcinogen.

Specific Target Organ Toxicity Single/Repeat Exposure – Respiratory System

Repeated inhalation of dusts can lead to irritation of the respiratory tract, inflame or sensitize the nose, throat and lungs resulting in illnesses such as asthma or pneumonia. Exposure to dust may occur with agitation of the product if the product is dry.

Skin Sensitizer

Not expected to be a skin sensitizer.

Section 12: Ecological Information (non-mandatory)

12.1 Ecotoxicity:

General Product Information: Product when used as intended is not hazardous to the environment.

Component Analysis - Ecotoxicity: Ecotoxicity data are not available for this product's.

Environmental Fate: No information available for the product.

Section 13: Disposal Considerations (non-mandatory)

13.1 Waste treatment methods:

General Product Information: Whatever cannot be saved or recovered for recycling should be disposed of according to state and local regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14: Transport Information (non-mandatory)

Product is not classified as Dangerous Goods.

Section 15: Regulatory Information (non-mandatory)

15.1 Safety, health, and environmental regulation:

US Federal Regulations

General Product Information: No component is listed on the U.S. EPA TSCA Inventory List. **Component Analysis:** Components of this product are not listed as hazardous under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

General Product Information: Other state regulations may apply. Check individual state requirements.

California Prop. 65 Components: This product contains no chemicals known to the State of California to cause cancer or reproductive toxicity.



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Material Name: Peat

Section 15: Regulatory Information (non-mandatory)

Section 16: Other Information

Other Information

Disclaimer: Supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Safety Data Sheet before handling product.

Key to Abbreviations and Acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists

DNEL: Derived No Effect Level

EINECS: European Inventory of Existing Commercial Chemical Substances

EPA: Environmental Protection Agency

EU: European Union

GHS Globally Harmonized System of classification and labelling of chemicals

IARC: International Agency for Research on Cancer

I: Inhalable Particles

LC50: Lethal concentration in air fatal to 50 percent of test animals LD50: Lethal dose by mouth or other route to 50 percent of test animals

LDLo: Lowest lethal dose

NIOSH: National Institute for Occupational Safety and Health

NJTSR: New Jersey Trade Secret Registry NOEC: No Observed Effect Concentration NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration (USA)

PNEC: Predicted No Effect Concentration
PNOC: Particulates Not Otherwise Classified

PPM: Parts Per Million R: Respirable Particles

STEL: Short Term Exposure Limit

T: Total Dust

TLV: Threshold Limit Value

TSCA: Toxic Substance Control Act TWA: Time weighted average

** This is the end of SDS - Peat **

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