

SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Identifier: (5N) 99.999% Potassium Bisulfate

Product Code: K-BSAT-05

CAS Number: 7646-93-7

Relevant identified uses of the substance: Scientific research and development

Supplier details:

American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351 Emergency telephone number: +1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Classification This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Skin Corrosion/irritation Category 1 B Serious Eye Damage/Eye Irritation Category 1 Specific target organ toxicity (single exposure) Category 3 Target Organs - Respiratory system. Label Elements Signal Word: Danger Hazard Statements Causes severe skin burns and eye damage May cause respiratory irritation



Precautionary Statements Prevention Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area Response Immediately call a POISON CENTER or doctor/physician Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse Eves IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Indestion IF SWALLOWED: Rinse mouth. DO NOT induce vomiting Storage Store locked up Store in a well-ventilated place. Keep container tightly closed Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified Skin Corrosion/irritation Category 1 B

Serious Eye Damage/Eye Irritation Category 1 Specific target organ toxicity (single exposure) Category 3

Target Organs - Respiratory system.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component: Potassium hydrogen sulfate CAS-No: 7646-93-7 Weight %: >95

SECTION 4. FIRST AID MEASURES

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention isrequired.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.

Inhalation Move to fresh air. If not breathing, give artificial respiration. Call a physician or Poison Control Center immediately. Do not use mouth-to-mouth method if victim ingested or

inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Ingestion Immediate medical attention is required. Do not induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.

Most important symptoms and effects

Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media CO 2, dry chemical, dry sand, alcohol-resistant foam. Unsuitable Extinguishing Media No information available Flash Point No information available Method - No information available Autoignition Temperature **Explosion Limits** Upper No data available Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available Specific Hazards Arising from the Chemical The product causes burns of eyes, skin and mucous membranes. Hazardous Combustion Products Sulfur oxides Potassium oxides 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. Thermal decomposition can lead to release of irritating gases and vapors. NFPA: Health 3 Flammability 0 Instability 1 Physical hazards N/A

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Evacuate personnel to safe areas. Avoid contact with skin, eyes and clothing.

Environmental Precautions Should not be released into the environment. Do not allow material to contaminate ground water system.

Methods for Containment and Clean Up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

SECTION 7. HANDLING AND STORAGE

Handling

Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe dust. Do not ingest.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies. Health 3 Flammability 0 Instability 1 Physical hazards N/A **Engineering Measures** Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. **Personal Protective Equipment** Eve/face Protection Wear appropriate protective eveglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin and body protection Long sleeved clothing. Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid **Appearance White Odor Odorless** Odor Threshold No information available pH1 Melting Point/Range 214 °C / 417.2 °F Boiling Point/Range No information available Flash Point No information available **Evaporation Rate Not applicable** Flammability (solid,gas) No information available Flammability or explosive limits Upper No data available Lower No data available Vapor Pressure No information available Vapor Density Not applicable Specific Gravity 2.24 Solubility No information available Partition coefficient; n-octanol/water No data available Autoignition Temperature Decomposition Temperature No information available Viscosity Not applicable Molecular Formula H K O4 S Molecular Weight 136.16

SECTION 10. STABILITY AND REACTIVITY

Reactive Hazard None known, based on information available Stability Hygroscopic. Conditions to Avoid Avoid dust formation. Incompatible products. Excess heat. Exposure to moisture. Incompatible Materials Strong oxidizing agents, Strong bases, Alcohols Hazardous Decomposition Products Sulfur oxides, Potassium oxides Hazardous Polymerization Hazardous polymerization does not occur. Hazardous Reactions None under normal processing.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity Product Information No acute toxicity information is available for this product **Component Information Toxicologically Synergistic** Products No information available Delayed and immediate effects as well as chronic effects from short and long-term exposure Irritation Causes burns by all exposure routes Sensitization No information available Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. Mutagenic Effects No information available Reproductive Effects No information available. Developmental Effects No information available. Teratogenicity No information available. STOT - single exposure Respiratory system STOT - repeated exposure None known Aspiration hazard No information available Symptoms / effects, both acute and delayed Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Do not empty into drains. .

Persistence and Degradability Soluble in water Persistence is unlikely based on information available. Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its water solubility.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14. TRANSPORT INFORMATION

DOT **UN-No UN2509** Proper Shipping Name POTASSIUM HYDROGEN SULFATE Hazard Class 8 Packing Group II TDG **UN-No UN2509** Proper Shipping Name POTASSIUM HYDROGEN SULFATE Hazard Class 8 Packing Group II IATA **UN-No UN2509** Proper Shipping Name POTASSIUM HYDROGEN SULPHATE Hazard Class 8 Packing Group II IMDG/IMO **UN-No UN2509** Proper Shipping Name POTASSIUM HYDROGEN SULPHATE Hazard Class 8 Packing Group II

SECTION 15. REGULATORY INFORMATION

U.S. Federal Regulations TSCA 12(b) Not applicable SARA 313 Not applicable SARA 311/312 Hazard Categories See section 2 for more information CWA (Clean Water Act) Not applicable Clean Air Act Not applicable **OSHA** Occupational Safety and Health Administration Not applicable **CERCLA Not applicable** California Proposition 65 This product does not contain any Proposition 65 chemicals U.S. Department of Transportation Reportable Quantity (RQ): N DOT Marine Pollutant N DOT Severe Marine Pollutant N U.S. Department of Homeland Security This product does not contain any DHS chemicals. **Other International Regulations** Mexico - Grade No information available

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for

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