MATERIAL SAFETY DATA SHEET

ALDON® CORPORATION
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SECTION I NAME
Product
Potassium Bisulfate

Chemical Synonyms
Potassium Hydrogen Sulfate

Formula
KH.SO4

Unit Size
up to 2.5 Kg.

C.A.S. No.
7646-93-7

SECTION II INGREDIENTS OF MIXTURES
Principal Component(s) % TLV Units
Potassium bisulfate >99.0% None established.

SECTION III PHYSICAL DATA
Melting Point (°F)
197°C (387°F)

Boiling Point (°F)
Decomposes above 300°C (570°F)

Vapor Pressure (mm Hg)
N/A

Vapor Density (Air=1)
Data not listed.

Solubility in Water
Soluble.

Appearance & Odor
White crystalline powder; no odor.

SECTION IV FIRE AND EXPLOSION HAZARD DATA
Flash Point (Method Used)
Non-flammable.

Flammable Limits in Air % by Volume N/A Lower Upper

Extinguisher Media
Use any media suitable for extinguishing supporting fire.

SECTION V HEALTH HAZARD DATA
Threshold Limited Value
Not established (ACGIH 2001). RTECS No. TS720000 Toxicity data: Oral-rat LD50 2340 mg/kg. PEL Sulfuric acid 1 mg/m³ in air averaged over 8 hr. shift.

Effects of Overexposure
Can burn eyes and skin on contact. If inhaled, can cause burns to nose, throat and lungs. If swallowed, can cause burns to stomach, esophagus and intestinal burns. Target organs: Respiratory system, gastrointestinal tract, eyes, skin.

Emergency and First Aid Procedures
INGESTION: 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. EYES: 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: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA
Stability
Unstable

Conditions to Avoid
Moisture. Excessive temperature, heat and alkali fumes.

Incompatibility (Materials to Avoid)
Alkalis and strong oxidizers and perpermanganates.

Hazardous Decomposition Products
When heated to decomposition emits toxic fumes of sulfur dioxide.

Hazardous Polymerization Conditions to Avoid
May Occur

Waste Disposal Method
Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Dissolve in water and neutralize with sodium bicarbonate, sodium carbonate or sodium hydroxide. Flush to sewers with copious amounts of water. Flush spill area with water.

SECTION VII SPILL OR LEAK PROCEDURES
Steps to be taken in case material is released or spilled
Recover for use if not contaminated. Sweep up and place in a suitable container for disposal. Dissolve in water and neutralize with sodium bicarbonate, sodium carbonate or sodium hydroxide. Flush to sewer with copious amounts of water.

SECTION VIII SPECIAL PROTECTION INFORMATION
Respiration Protection (Specify Type)
None should be needed in normal laboratory use. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Ventilation Local Exhaust Recommended. Special No.
Mechanical (General) Recommended. Other No.

Protective Gloves
Rubber. Eye Protection Chemical safety goggles.

Other Protective Equipment
Faceshield, smock, apron, eye wash station, proper gloves, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS
Precautions to be Taken in Handling & Storing
Store in a cool, dry place away from alkalis and strong oxidizers. Substance readily absorbs moisture from air and becomes corrosive to metal when wet. Wash thoroughly after handling.

Other Precautions
Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

SECTION X SPECIAL PRECAUTIONS
Diligent material. Avoid contact with skin, eyes and mucous membranes. Avoid dust inhalation. Use with adequate ventilation. Remove and wash contaminated clothing.

Revision No. 8 Date 01/01/07 Approved James A. Bertsch Chemical Safety Coordinator JAB

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(2004 EMERGENCY RESPONSE GUIDEBOOK, RP509.9, GUIDE PAGE NO. 154)

D.O.T. "Potassium hydrogen sulfate, 8, UN2509, PG II, Ltd Qty ≤ 1 Kg.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20