



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. PP 370  
Effective Date April 15, 1999

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	POTASSIUM BISULFATE
Chemical Synonyms	Potassium Hydrogen Sulfate
Formula	KHSO <sub>4</sub>
Unit Size	up to 2.5 Kg.
C.A.S. No.	7646-93-7

0

3

0

CHEMTREC  
800-424-9300  
Day 716-226-6177

NFPA  
HAZARD RATING  
LEAST SLIGHT MODERATE  
0 1 2

Health 3  
Fire 0  
Reactivity 2

HMIS \*  
HIGH EXTREME  
3 4

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Potassium Bisulfate	>99.0%	None established.
As Sulfuric Acid by weight	35-37%	See Section V.
<b>DANGER! CORROSIVE! CAUSES SEVERE BURNS TO SKIN AND EYES.</b>		

## SECTION III PHYSICAL DATA

Melting Point (°F)	197°C (387°F)	Specific Gravity (H <sub>2</sub> O = 1)	2.245
Boiling Point (°F)	Decomposes above 300°C (570°F)	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (n-Butyl Acetate =1)	N/A
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	55 grams per 100 mL. at 20°C.		
Appearance & Odor	Colorless to white crystals or 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.				

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep containers cooled with foam or mist. Divert streams of alkaline material away from substance.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 154)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Dangerous; when heated to decomposition, it emits highly toxic fumes of oxides of sulfur; will react with water or steam to produce heat, toxic fumes and sulfuric acid. Contact with alkaline liquids or molten alkalis can cause spattering of hot corrosive material.

D.O.T. POTASSIUM HYDROGEN SULFATE, 8, UN 2509, PG II

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

## SECTION V HEALTH HAZARD DATA PP 370

**Threshold Limited Value** Not established (ACGIH 1992-93). RTECS No. TS7200000 Toxicity data: Oral LD50 2340 mg/kg. PEL Sulfuric acid 1 mg/m<sup>3</sup> in air averaged over 8 hr. shift.

**Effects of Overexposure** **TARGET ORGANS AFFECTED:** Central nervous system, respiratory/digestive tract. **INHALATION:** Dust may cause upper respiratory tract irritation. **EYES:** Contact with powder may cause severe burns. **SKIN:** Prolonged or repeated skin contact may cause skin irritation and/or burns. **INGESTION:** May be fatal if swallowed. May cause gastrointestinal and digestive tract burns, intense pain, bleeding.

**Emergency and First Aid Procedures** **SKIN:** Flush with water for 15 minutes, then wash with soap and water. **INGESTION:** If swallowed, do NOT induce vomiting. If conscious, drink large quantities of water. Follow with milk of magnesia, vegetable oil, or beaten eggs. Call physician immediately. Never give anything by mouth to an unconscious person. **EYES:** Flush with water for 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention promptly. **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.
	Stable	X	

**Incompatibility (Materials to Avoid)** Alkalies and strong oxidizers and permanganates.

**Hazardous Decomposition Products** When heated to decomposition emits toxic fumes of sulfur dioxide (SO<sub>2</sub>).

Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X
	Not applicable.

## 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. Flush spill area with water.

**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 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 glasses.

**Other Protective Equipment** Goggles, 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 alkalies and strong oxidizers. Substance readily absorbs moisture from air and becomes corrosive to metal when wet. Wash thoroughly after handling. Keep container tightly closed when not in use.

**Other Precautions** Read label on container before using. Do not wear contact lenses when working with chemicals. Deliquescent material. Avoid contact with skin, eyes and mucous membranes. Avoid dust inhalation. Use with adequate ventilation. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 5	Date	4/15/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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