

MATERIAL SAFETY DATA SHEET

SECTION I NAME		24 HOUR EMERGENCY ASSISTANCE	
Product	POTASSIUM OXALATE		
Chemical Synonyms	Oxalic Acid Dipotassium Salt		
Formula	$K_2C_2O_4 \cdot H_2O$		
Unit(s) Size	100, 500 grams, 2.5 Kg.		
C.A.S. No.	583-52-8		

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES		
Principal Hazardous Component(s)	%	TLV Units
Potassium Oxalate	100%	None established
DANGER! ☠ POISON ☠ HARMFUL IF SWALLOWED		
SKIN AND EYE IRRITANT.		

SECTION III PHYSICAL DATA			
Melting Point (°F)	Decomposes on heating	Specific Gravity (H ₂ O = 1)	2.127 at 39°C
Boiling Point (°F)	Decomposes	Percent Volatile by Volume (%)	Non-volatile (NA)
Vapor Pressure (mm Hg)	Negligible as solid	Evaporation Rate (= 1)	Non-volatile (NA)
Vapor Density (Air = 1)	Data not listed		
Solubility in Water	33 grams per 100 ml water at 20°C.		
Appearance and Odor	Colorless, transparent crystals or powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA				
Flash Point Method Used	Non-flammable (NA)	Flammable Limits in Air % by Volume	Lower	Upper
Extinguisher Media	Water spray; Carbon dioxide (CO ₂); dry chemical (ABC).			

SPECIAL FIREFIGHTING PROCEDURES	
	In fire conditions, wear a NIOSH-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS	
	Dangerous when heated to decomposition, emits toxic fumes.
H.O.T. POISON B, SOLID, N.O.S.	

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

SECTION V HEALTH HAZARD DATA

Threshold Limited Value	None established. (ACGIH 1983-84). MLD S. C. in mice: 150 mg per Kg.
Effects of Overexposure	SKIN AND EYES: Corrosive and produces local irritation. INGESTION: When taken orally it has a caustic effect on the mouth, esophagus and stomach. Can cause severe kidney damage. ☠ POISONOUS ☠ Highly toxic by inhalation and ingestion.
Emergency and First Aid Procedures	EYES: In case of contact, flush thoroughly with water for at least 15 minutes. Get immediate medical attention. SKIN: Flush with water. INHALATION: Remove to fresh air. If illness develops, get immediate medical attention. INGESTION: Give large quantities of milk and induce vomiting. Follow with more milk. Call physician immediately.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid
	Stable	x Excessive temperature and heat.
Incompatibility (Materials to avoid)	Strong oxidizers.	
Hazardous Decomposition Products	Combustion will produce carbon dioxide (CO ₂) and probably carbon monoxide (CO).	
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	Sweep up and place in a suitable container. Flush spill area with water.
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Waste Disposal Method	Dispose of in an approved incinerator or contract an approved and licensed disposal agency.
Discharge, treatment, or disposal may be subject to federal, state, or local laws.	

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be needed in normal laboratory use. If dusty, work in fume hood or wear a standard NIOSH-approved dust mask.			
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, ventilation hood, proper gloves.			

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing	Avoid breathing dust. Store in a cool, dry place. Keep container tightly closed when not in use. 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.

Rev. No.	No. 1	Date	1/12/87	Approved	Alexander Piccirilli	Chemical Safety Coordinator	AP
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