

# MATERIAL SAFETY DATA SHEET

July 1, 1986

## SECTION I NAME

Product	POTASSIUM CHLORIDE	CHEMTREC 800-424-9300	Health	1
Chemical Synonyms	Potassium Murfate	Day 716-226-6177 NIGHT 716-334-4222	Fire	0
Formula	KCl		Reactivity	0
Units) Size	100, 500 grams, 2.5 Kg.			
G.A.S. No.	7447-40-7			
HAZARD RATING				
LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

## SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	Potassium Chloride (Not hazardous)	%	TLV Units
		100%	None established

WARNING! MAY BE HARMFUL IF SWALLOWED.

## SECTION III PHYSICAL DATA

Melting Point (°F)	773°C	Specific Gravity (H <sub>2</sub> O = 1)	1.984 at 20°C
Boiling Point (°F)	Sublimes at 1500°C	Percent Volatile by Volume (%)	0%
Vapor Pressure (mm Hg)	Negligible as solid	Evaporation Rate = 1)	Non-volatile (NA)
Vapor Density (Air = 1)	2.58		
Solubility in Water	34.7 grams per 100 ml water at 20°C.		
Appearance and Odor	White crystals or crystalline powder; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-Flammable (NA)	Flammable Limit (by Volume %)	Lower	Upper
Extinguisher Media	Use any media suitable for extinguishing supporting fire.			

**SPECIAL FIREFIGHTING PROCEDURES**  
In fire conditions, wear a NIOSH-approved self-contained breathing apparatus.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**  
Fire or excessive heat may produce hazardous decomposition products.

D.O.T. NON-REGULATED

**FreY SCIENTIFIC**  
905 HICKORY LANE MANSFIELD OHIO 44905  
MSDS No. Effective Date

## SECTION V HEALTH HAZARD DATA

Threshold Limited Value  
None established: TDS: 0.1-Rat LD<sub>50</sub> 2430 mg/Kg  
ACGIH 1983-84) 0.1-99g L50 2500 mg/Kg

**Effects of Overexposure**  
EYE: Contact may cause irritation.  
SKIN: Contact may cause irritation.  
INGESTION: Of large quantities causes gastrointestinal irritation purging, also weakness and circulatory disturbances.

**Emergency and First Aid Procedures**  
EYES: Flush thoroughly with water. If irritation develops or persists get medical attention.  
SKIN: Flush with water.  
INGESTION: If large amount swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting and call physician.  
INHALATION: Remove to fresh air.

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## SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Exposure to moisture.
	Stable		

**Incompatibility (Materials to avoid)**  
None known.

**Hazardous Decomposition Products**  
Thermal decomposition or burning may produce hydrochloric acid.

**Hazardous Polymerization**  
Will Not Occur  
Conditions to Avoid  
Not applicable.

**SECTION VII SPILL OR LEAK PROCEDURES**  
Steps to be taken in case material is released or spilled  
Dissolve in water and flush to sewer.  
Flush spill area with water.

**Waste Disposal Method**  
Dissolve in water and flush to sewer with copious amounts of water.

Discharge, treatment, or disposal may be subject to federal, state, or local laws.

## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection	None should be needed in normal laboratory handling. If needed wear an NIOSH-approved (Specify type)	Local Exhaust	Not needed	Special	NO
Ventilation	Mechanical (General)	Not needed	Other	NO	

**Protective Gloves**  
Not needed

**SECTION IX SPECIAL PRECAUTIONS**  
**Precautions to be Taken in Handling and Storing**  
Store in a cool, dry place.  
Wash thoroughly after handling.  
Keep container tightly closed when not in use.

**Other Precautions**  
Read label on container before using.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.  
Rev. No. 11/2/84 Approved *Wendell D. ...* Chemical Safety Coordinator

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