

MATERIAL SAFETY DATA SHEET July 1, 1986

SECTION I NAME

Product	POTASSIUM IODATE	CHEMTREC 800-424-9300			
Chemical Synonyms	Potassium Iodate	Day 716-226-6177 Night 716-334-4222			
Formula	KIO3	NFPA HAZARD RATING			
Unit(s) Size	100, 500 grams	LEAST 0	SLIGHT 1	MODERATE 2	HIGH 3
C.A.S. No.	7758-05-6	EXTREME 4			

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	%	TLV Units
Potassium Iodate	100%	See Section V
DANGER! STRONG OXIDANT-HARMFUL IF SWALLOWED		
HEAT SHOCK OR FRICTION MAY CAUSE FIRE OR EXPLOSION,		

SECTION III PHYSICAL DATA

Melting Point (°F)	560°C (1040°F) dec.	Specific Gravity (H2O = 1)	3.89 at 20°C
Boiling Point (°F)	Not applicable	Percent Volatile by Volume (%)	Non-volatile (NA)
Vapor Pressure (mm Hg)	Negligible as solid	Evaporation Rate (n-butyl AC = 1)	Non-volatile (NA)
Vapor Density (Air = 1)	Data not listed		
Solubility in Water	8.3 grams per 100 ml water at 20°C.		
Appearance and Odor	White 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	NA	Lower	Upper
Extinguisher Media	Flood with water spray or fog.				

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH-approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Material is an oxidizer and greatly increases the burning rate of combustible materials. When heated to decomposition, it emits toxic fumes of iodine. Contact with other materials may cause fire.

D.O.T. OXIDIZING MATERIAL, N.O.S.

freyscientific

MSDS No.
Effective Date

905 HICKORY LANE MANSFIELD OHIO 44905

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

FreY

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SECTION V HEALTH HAZARD DATA

Threshold Limited Value	Not established. (ACGIH 1983-84). Toxicity Data: Acute Oral LD50 (rat-male) 675 mg/kg Classification: Slightly Toxic.
Effects of Overexposure	Moderately toxic via oral route. Potassium Iodate has been reported as being a causal agent for CNS paralysis.

Emergency and First Aid Procedures

EYES: Flush thoroughly with water. If irritation develops or persists get medical attention.
SKIN: Flush with water and follow with warm soap and water.
INGESTION: If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting and call physician immediately.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Avoid exposure to combustibles.
	Stable		Dangerous when heated.
Incompatibility (Materials to avoid)	X		Violent reaction with Aluminum, Arsenic, Carbon, Copper, Phosphorous, sulfur and metal sulfides, organic matter.

Hazardous Decomposition Products

Highly toxic and corrosive fumes of iodine.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled
Sweep up and place in suitable container.

Waste Disposal Method

Dissolve in water and flush to sewer with copious amounts of water.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection	None should be needed in normal laboratory handling. If dusty conditions prevail, work in fume hood or wear an NIOSH-approved dust mask.			
Ventilation	Local Exhaust	Not required	Special	No
	Mechanical (General)	Recommended	Other	No

Protective Gloves

Goggles, smock, apron, eye wash station, proper gloves, ventilation hood, fire extinguisher.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing
Store in a cool, dry place away from strong reducing agents and organic materials.
Wash thoroughly after handling.

Other Precautions

Read label on container before using.
Remove and wash contaminated clothing promptly.

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

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