

MATERIAL SAFETY DATA SHEET

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1. PRODUCT IDENTIFICATION

CATALOG NO.: R-0808  
PRODUCT NAME: Iodide Iodate Reagent  
CHEMICAL FAMILY: Inorganic salt solution

2. INGREDIENTS

INGREDIENT	CAS NO.	%	NATURE OF HAZARD
Potassium iodide	7681-11-0	<5	Irritant
Potassium hydroxide	1310-58-3	<1	Irritant alkali
Potassium iodate	7758-05-6	<1	Irritant
Deionized water	7732-18-5	to 100	None

3. PHYSICAL/CHEMICAL CHARACTERISTICS

STATE: Liquid APPEARANCE: Clear, colorless ODOR: None  
BOILING PT (F): 212 pH: 12 SPECIFIC GRAVITY: 1.01  
VAPOR PRESSURE (mm Hg): 17 VAPOR DENSITY (AIR=1): .6  
PERCENT VOLATILE BY VOLUME: 99 SOLUBILITY IN WATER: Soluble

4. FIRE, EXPLOSION HAZARD AND REACTIVITY DATA

FLASH PT: NA METHOD: NA  
FLAMMABLE LIMITS: LEL: NA UEL: NA  
EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water spray or foam  
SPECIAL PROCEDURES: Wear self-contained (positive pressure if available)  
breathing apparatus and full-protective clothing  
FIRE/EXPLOSION HAZARDS AND HAZARDOUS DECOMPOSITION PRODUCTS: May release  
elemental iodine upon contact with acids and other chemicals. May emit  
toxic fumes of iodine, potassium oxide.  
NFPA CODE: Health: 0 Flammability: 0 Reactivity: 0 Specific: NA  
CONDITIONS TO AVOID: Extreme heat, temperatures. Contact with acids.

5. HEALTH HAZARD DATA

INGREDIENT: Potassium iodide  
TOXICITY: LD50(oral-mus): 1862 mg/kg  
PEL: NE TLV: NE  
STEL: NE

INGREDIENT: Potassium iodate  
TOXICITY: LDLo(oral-mus): 531 mg/kg  
PEL: NE TLV: NE  
STEL: NE

INGREDIENT: Potassium hydroxide  
TOXICITY: LD50(oral-rat): 365 mg/kg  
PEL: NE TLV: 2 mg/m3 (ceiling)  
STEL: NE

## 5. HEALTH HAZARD DATA - continued

ROUTE(S) OF ENTRY: Inhalation    Ingestion X    Skin X

TARGET ORGAN(S): Eyes, skin

CARCINOGENICITY: NTP No IARC No    OSHA No

HEALTH HAZARDS AND SYMPTOMS OF EXPOSURE:

EYES: Irritant

SKIN: Irritant

INGESTION: Irritant. May cause gastrointestinal irritation.

INHALATION: NA

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye and skin conditions

## 6. PRECAUTIONARY MEASURES

PROTECTIVE EQUIPMENT: General purpose gloves, safety glasses, lab coat

HANDLING: Avoid contact with eyes, skin, and clothing. Avoid breathing chemical. Wash thoroughly after handling.

STORAGE: Cool, dry area. Avoid direct sunlight.

## 7. EMERGENCY AND FIRST AID PROCEDURES

EYE AND SKIN CONTACT: Immediately flush eyes with water for 15 minutes.

Call physician. Wash skin thoroughly with soap and water.

INGESTION: Give large amounts of water. Call physician. Induce vomiting under direction of physician.

INHALATION: NA

## 8. SPILL AND DISPOSAL PROCEDURES

SPILL OR RELEASE: Absorb with vermiculite or other inert material.

Containerize for later disposal.

DISPOSAL: Incineration or other method to comply with all local, state, and federal regulations.

NA = Not applicable

ND = Not determined

NE = Not established

This Material Safety Data Sheet has been prepared in accordance with 29 CFR Part 1910.1200 and contains information believed to be accurate and complete at the date of preparation. However, no warranty is expressed or implied. Advice given under "Spill and Disposal Procedures" assumes compliance with federal, state, and local regulations regarding the disposal of hazardous waste.

DATE PREPARED: May 1996