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 (orl-mus): 1862 mg/kg
PEL: NE
STEL: NE

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

INGREDIENT: Potassium hydroxide
TOXICITY: LD50 (orl-rat): 365 mg/kg
PEL: NE
STEL: NE

TLV: 2 mg/m3 (ceiling)
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.

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