OXFORD LAB FINE CHEM LLP

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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

POTASSIUM IODATE 99%

Extra Pure

MSDS CAS: 7758-05-6

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: POTASSIUM IODATE
CAS#: 7758-05-6
Synonym: Not Available.
Chemical Name: Iodic Acid, potassium salt
Chemical Formula: KIO_3

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet :

Company identification: **OXFORD LAB FINE CHEM LLP**
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
Navghar, Vasai (East). Palghar - 401 210.
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Tel: 91-250-2390989
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Potassium Iodate	7758-05-6	100

Toxicological Data on Ingredients: Potassium iodate LD50: Not available. LC50: Not available.

Section 3: Hazards Identification

Potential Acute Health Effects: **Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause respiratory irritation.**

Potential Chronic Health Effects: **CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys, liver, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.**

Section 4: First Aid Measures

Eye Contact: **Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.**

Skin Contact: **In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.**

Serious Skin Contact: **Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.**

Inhalation: **If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.**

Serious Inhalation: **Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.**

Ingestion: **Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.**

Serious Ingestion: **Not available.**

Section 5: Fire and Explosion Data

Flammability of the Product: **Non-flammable.**

Section 5: Fire and Explosion Data (Continued)

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: combustible materia

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available

Fire Fighting Media and Instructions: Not Applicable.

Special Remarks on Fire Hazards: It is an oxidizer. It can start a fire in presence of combustible or flammable materials When heated to decomposition it emits very toxic fumes.

Special Remarks on Explosion Hazards: Potentially explosive reaction with charcoal + ozone; metals; arsenic; carbon; phosphorus; sulfur; alkali metal hydrides; alkaline earth metal hydrides; antimony sulfide; arsenic sulfide; tin sulfide; metal cyanides; metal thiocyanates; manganese dioxide

Section 6: Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill: Oxidizing material. Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

Section 7: Handling and Storage

Precautions: Keep away from heat. Keep away from sources of ignition. Keep away from combustible material.. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible.

Section 7: Handling and Storage (Continued)

Avoid contact with skin and eyes. Keep away from incompatibles such as reducing agents, combustible materials.

Storage: **Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from acids, alkalies, reducing agents and combustibles. See NFPA 43A, Code for the Storage of Liquid and Solid Oxidizers.**

Section 8: Exposure Controls/Personal Protection

Engineering Controls: **Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.**

Personal Protection: **Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.**

Personal Protection in Case of a Large Spill: **Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.**

Exposure Limits: **Not available.**

Section 9: Physical and Chemical Properties

Physical state and appearance: **Solid. (Crystals solid. Crystalline powder.)**

Odor	**: Odorless.**
Taste	**: Not available.**
Molecular Weight	**: 214 g/mole**
Color	**: Not available.**
pH (1% soln/water)	**: Not available.**
Boiling Point	**: Not available.**
Melting Point	**: Decomposition temperature: 560°C (1040°F)**
Critical Temperature	**: Not available.**
Specific Gravity	**: Not available.**
Vapor Pressure	**: Not available.**
Vapor Density	**: Not available.**

Section 9: Physical and Chemical Properties (Continued)

Volatility : Not available.
Odor Threshold : Not available.
Water/Oil Dist. Coeff. : Not available.
Ionicity (in Water) : Not available.
Dispersion Properties : See solubility in water.
Solubility : Soluble in cold water, hot water. Solubility in water @ 0 C: 4.74/100 ml Solubility in water @ 25 C: 9.16 g/100 ml Solubility in water at 100 C: 32.3 g/100 ml Insoluble in alcohol, nitric acid. Soluble in potassium iodide, dilute sulfuric acid.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials, dust generation.

Incompatibility with various substances:
Reactive with reducing agents, combustible materials, organic materials, metals.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: It can react vigorously with reducing materials. Violent reaction with organic matter. Incompatible with charcoal + ozone; metals; arsenic; carbon; phosphorus; sulfur; alkali metal hydrides; alkaline earth metal hydrides; sulfides (antimony sulfide; arsenic sulfide; copper sulfide; tin sulfide); metal cyanides; metal thiocyanates; manganese dioxide, hydrogen peroxide. Strong oxidizing characteristics appear when mixed with acid solutions.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Section 11: Toxicological Information (Continued)

Toxicity to Animals: **LD50: Not available. LC50: Not available.**

Chronic Effects on Humans: **May cause damage to the following organs: kidneys, liver, central nervous system (CNS).**

Other Toxic Effects on Humans: **Hazardous in case of skin contact (irritant), of ingestion, of inhalation.**

Special Remarks on Toxicity to Animals: **Lowest Published Lethal Dose: LDL [Mouse] - Route - Oral; Dose: 531 mg/kg LDL [Dog] - Route - Oral; Dose: 200 mg/kg Lethal Dose/Conc 50% Kill: LD50 [Mouse] - Route - Intraperitoneal; Dose: 136 mg/kg**

Special Remarks on Chronic Effects on Humans: **Not available.**

Special Remarks on other Toxic Effects on Humans: **Acute Potential Health Effects: Skin: May cause severe irritation and possible burns. Eyes: May caue eye irritation. May cause conjunctivitis. May cause corneal opacification. Inhalation: May cause respiratory tract irritation, pulmonary edema, asphyxia, chemical pneumonitis, upper airway obstruction casued by edema. Ingestion: May cause gastrointestinal tract irritation with possible burns. May cause nausea, vomiting, hypermotility, and diarrhea (possibly with blood). May affect behavior/Central Nervous system (excitement, convulsions), respiration. Chronic Potential Health Effects: Ingestion: Prolonged or repeated ingestion may affect the liver (necrotic lesions, and kidneys (renal failure, hemoglobinuria, necrotic lesions), metabolism (anorexia), and the blood (anemia)**

Section 12: Ecological Information

Ecotoxicity: **Not available.**

BOD5 and COD: **Not available.**

Products of Biodegradation: **Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.**

Toxicity of the Products of Biodegradation: **The product itself and its products of degradation are not toxic.**

Special Remarks on the Products of Biodegradation: **Not available.**

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations

Section 14: Transport Information

Land transport (ADR-RID)
Proper shipping name: OXIDIZING SOLID, N.O.S.
UN N°: 1479
H.I. nr: 50
ADR - Class: 5.1
Labelling - Transport: 5.1 : Oxidizing substances.
ADR - Group: II

Sea transport (IMDG) [English only]
Proper shipping name: OXIDIZING SOLID, N.O.S.
UN N°: 1479
IMO-IMDG - Class or division: 5.1 : Oxidizing substances.
IMO-IMDG - Packing group: II

Air transport (ICAO-IATA) [English only]
Proper shipping name: OXIDIZING SOLID, N.O.S.
UN N°: 1479
IATA - Class or division: 5.1 : Oxidizing substances.
IATA - Packing group: II

Section 15: Other Regulatory Information

Federal and State Regulations: **TSCA 8(b) inventory: Potassium iodate**

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:
WHMIS (Canada): CLASS C: Oxidizing material.

Section 15: Other Regulatory Information (Continued)

DSCL (EEC): **R8- Contact with combustible material may cause fire. R22- Harmful if swallowed. R36/38- Irritating to eyes and skin. S2-Keep out of the reach of children. S17- Keep away from combustible material. S46- If swallowed, seek medical advice immediately and show this container or label.**

HMIS (U.S.A.):
Health Hazard: 2
Fire Hazard: 0
Reactivity: 1
Personal Protection: E

National Fire Protection Association (U.S.A.):
Health: 2
Flammability: 0
Reactivity: 0
Specific hazard:

Protective Equipment: **Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.**

Section 16 - Additional Information

References: **Not available.**

Other Special Considerations: **Not available.**

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