OXFORD LAB FINE CHEM LLP

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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

POTASSIUM METAPERIODATE 99%

Extra Pure

(Potassium Periodate)

MSDS CAS: 7790-21-8

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: POTASSIUM METAPERIODATE
CAS#: 7790-21-8
Synonym: Potassium Periodate
Chemical Name: Potassium Metaperiodate
Chemical Formula: KIO_4

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.
Mumbai, Maharashtra, INDIA.
Tel: 91-250-2390989
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Potassium Metaperiodate	7790-21-8	100

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

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Section 3: Hazards Identification

Potential Acute Health Effects: **Extremely hazardous in case of ingestion. Very hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause respiratory irritation. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.**

Potential Chronic Health Effects: **Extremely hazardous in case of ingestion. Very hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.**

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: **After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek 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.**

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. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.**

Serious Ingestion: **Not available.**

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

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: Not Applicable.

Explosion Hazards in Presence of Various Substances:
Highly explosive in presence of open flames and sparks, of shocks, of heat, of reducing materials, of combustible materials.

Fire Fighting Media and Instructions: Not Applicable.

Special Remarks on Fire Hazards: When heated to decomposition it emits toxic fumes of sulfur oxides and potassium sulfate. It may ignite during milling or grinding (when powdering it).

Special Remarks on Explosion Hazards: Not available.

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. Take precautionary measures against electrostatic discharges. In case of insufficient ventilation, wear suitable respiratory equipment If you feel unwell, seek medical attention and

Section 7: Handling and Storage (Continued)

show the label when possible. Avoid contact with skin and eyes Keep away from incompatibles such as reducing agents, combustible materials, organic materials.

Storage: **Oxidizing materials should be stored in a separate safety storage cabinet or room.**

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: **Splash goggles. 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. Dust 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. (Powdered solid.)**

Odor	**: Not available.**
Taste	**: Not available.**
Molecular Weight	**: 230.01 g/mole**
Color	**: Colorless.**
pH (1% soln/water)	**: Not available.**
Boiling Point	**: Decomposes.**
Melting Point	**: 582°C (1079.6°F)**
Critical Temperature	**: Not available.**
Specific Gravity	**: 3.618 (Water = 1)**
Vapor Pressure	**: Not available.**
Vapor Density	**: Not available.**
Volatility	**: Not available.**
Odor Threshold	**: Not available.**

Section 9: Physical and Chemical Properties (Continued)

Water/Oil Dist. Coeff. : **Not available.**
Ionicity (in Water) : **Not available.**
Dispersion Properties : **Not available.**
Solubility : **Very slightly soluble in cold water.**

Section 10: Stability and Reactivity Data

Stability: **The product is stable.**

Instability Temperature: **Not available.**

Conditions of Instability: **Not available.**

Incompatibility with various substances: **Highly reactive with reducing agents, combustible materials, organic materials.**

Corrosivity: **Non-corrosive in presence of glass.**

Special Remarks on Reactivity: **Not available.**

Special Remarks on Corrosivity: **Not available.**

Polymerization: **No.**

Section 11: Toxicological Information

Routes of Entry: **Eye contact. Inhalation. Ingestion.**

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

Chronic Effects on Humans: **The substance is toxic to lungs, mucous membranes.**

Other Toxic Effects on Humans:
Extremely hazardous in case of ingestion. Very hazardous in case of skin contact (irritant), of inhalation.

Special Remarks on Toxicity to Animals: **Not available.**

Section 11: Toxicological Information (Continued)

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

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:

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

Section 14: Transport Information (Continued)

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 periodate

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

Other Classifications:
WHMIS (Canada): CLASS C: Oxidizing material. CLASS D-2A: Material causing other toxic effects (VERY TOXIC).
DSCL (EEC): R38- Irritating to skin. R41- Risk of serious damage to eyes.

HMIS (U.S.A.):
Health Hazard: 2
Fire Hazard: 0
Reactivity: 3
Personal Protection: E

National Fire Protection Association (U.S.A.):
Health: 2
Flammability: 0
Reactivity: 3
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.

Disclaimer:

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