

## MATERIAL SAFETY DATA SHEET

### 1) CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Common Name / Trade Name: **POTASSIUM IODATE**

Name of Manufacturer / Supplier: ESKAY IODINE PVT. LTD.  
Plot no: 907/2, GIDC Industrial Estate,  
Jhagadia, Dist: Bharuch  
Gujarat-393110, INDIA

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### 2) HAZARDS IDENTIFICATION

Appearance: white. **Danger!** Strong oxidizer. Contact with other material may cause a fire. Can be explosive when exposed to heat or flames. May cause kidney damage. May cause central nervous system effects. May cause severe eye, skin and respiratory tract irritation with possible burns.

**Target Organs:** Kidneys, central nervous system.

#### Potential Health Effects

**Eye:** May cause eye irritation. May cause conjunctivitis. May cause permanent corneal opacification.

**Skin:** May cause severe irritation and possible burns.

**Ingestion:** May cause burns to the gastrointestinal tract. May cause nausea, vomiting, and diarrhea, possibly with blood.

**Inhalation:** May cause acute pulmonary edema, asphyxia, chemical pneumonitis, and upper airway obstruction caused by edema.

**Chronic:** Prolonged or repeated skin contact may cause irritation. Prolonged or repeated exposure may cause gastrointestinal irritation and kidney damage. Chronic ingestion may cause central nervous system failure. Effects may be delayed.

### 3) COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterization : Potassium Iodate  
Substance / Product Identification: CAS No. : 7758-05-6  
EC No. : 231-831-9

### 4) FIRST AID MEASURES

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. Do NOT use mouth-to-mouth resuscitation.

## 5) FIRE FIGHTING MEASURES

<b>General Information:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-Demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Strong oxidizer. Contact with combustible materials may cause a fire. Use water spray to keep fire-exposed containers cool. Use water with caution and in flooding amounts. This material is an explosion hazard when exposed to heat, mechanical shock, or friction. Containers may explode when heated. Runoff to sewer may create fire or explosion hazard.
<b>Extinguishing Media:</b>	Contact professional fire-fighters immediately. Cool containers with flooding quantities of water until well after fire is out. For small fires, do NOT use dry chemicals, carbon dioxide, halon or foams. USE WATER ONLY. For large fires flood fire with water from a distance.

## 6) ACCIDENTAL RELEASE MEASURES

<b>General Information:</b>	Use proper personal protective equipment.
<b>Spills/Leaks:</b>	Vacuum or sweep up material and place into a suitable disposal container.

## 7) HANDLING AND STORAGE

<b>Handling:</b>	Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation.
<b>Storage:</b>	Do not store near combustible materials. Store in a cool, dry place. Store in a tightly closed container. Keep away from reducing agents.

## 8) EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering Controls:</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.
<b>Exposure:</b>	None
<b>Personal Protective Equipment</b>	<b>Eyes:</b> Wear chemical splash goggles. <b>Skin:</b> Wear appropriate protective gloves to prevent skin exposure. <b>Clothing:</b> Wear appropriate protective clothing to prevent skin exposure. <b>Respirators:</b> Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Appearance:	white
Odor:	odorless
pH:	Not available.
Vapor Pressure:	Not available.

Vapor Density:	Not available.
Evaporation Rate:	Not available.
Viscosity:	Not available.
Boiling Point:	560 °F
Freezing/Melting Point:	1040 °F
Auto ignition Temperature:	Not available.
Flash Point:	Not available.
Decomposition Temperature:	1040 °F
NFPA Rating:	(estimated) Health: 2; Flammability: 0; Reactivity: 1
Explosion Limits, Lower:	Not available.
Upper:	Not available.
Solubility:	Soluble in water
Specific Gravity/Density:	3.93
Molecular Formula:	KIO3
Molecular Weight:	214.001

### 10) STABILITY AND REACTIVITY DATA

Chemical Stability:	Stable under normal temperatures and pressures.
Conditions to Avoid:	High temperatures, incompatible materials, ignition sources, dust generation, combustible materials, reducing agents.
Incompatibilities with Other Materials:	Reducing agents.
Hazardous Decomposition Products:	Irritating and toxic fumes and gases, oxides of potassium, iodine.
Hazardous Polymerization:	Has not been reported.

### 11) TOXICOLOGICAL INFORMATION

RTECS#:	CAS# 7758056: NN1350000
LD50/LC50:	RTECS: Not available. Other: Ipr, mouse LD50: 136 mg/kg
Carcinogenicity:	Potassium iodate Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other:	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

### 12) ECOLOGICAL INFORMATION

No information available.

### 13) DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

### 14) TRANSPORT INFORMATION

Land Transport ADR / RID:	Class :	5.1
	Packaging Group:	II
	Label:	5.1
	UN Number:	1479
	Technical Name:	Oxidizing solid, n.o.s.
	Danger Releasing Substance:	Potassium Iodate

Air Transport ICAO / IATA:                      Class :    5.1  
Packaging Group:                                II  
UN Number:                                        1479  
Proper Shipping Name:                          Oxidizing Solid, n.o.s.  
Danger Releasing Substance: Potassium Iodate  
Label:    5.1

Sea Transport:                                      Class :    5.1  
Packaging Group:                                II  
UN Number:                                        1479  
Proper Shipping Name:                          Oxidizing Solid, n.o.s.  
Danger Releasing Substance: Potassium Iodate  
Label:    5.1

### 15) REGULATORY INFORMATION

Labeling in accordance with EC directives: The product is classified and labeled in accordance with EC directives/  
EC No. :    231-831-9(Potassium Iodate)  
Hazards Symbols:                                O :    Oxidizing  
R Phrases :                                        22    Harmful if swallowed.  
    8    Contact with combustible material may cause fire.  
S Phrases :                                        16 :    Keep away from sources of ignition – No Smoking  
    17:    Keep away from combustible material.

### 16) OTHER INFORMATION

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the users' responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Eskay Iodine Pvt. Ltd. assumes no responsibility for the completeness or accuracy of the information contained herein.

For **ESKAY IODINE PVT. LTD.**

*Sunil Sharda*

**AUTHORISED SIGNATORY**