

G. AMPHRAY LABORATORIES

E-mail : info@amphray.com

Sambava Chambers, 4th Floor, Sir P. M. Road, Mumbai – 400 001, INDIA.

Web : www.amphray.com

MATERIAL SAFETY DATA SHEET

1) CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Common Name / Trade Name : POTASSIUM IODIDE

Name of Manufacturer / Supplier : G. AMPHRAY LABORATORIES
4th Floor, Sambava Chambers, Sir. P. M. Road, Fort,
Mumbai – 400 001, India.

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Commercial Name : Not Available
Synonym : Not Available

Chemical Name : Potassium Iodide

Chemical Family : Not Available

Chemical Formula : KI

CAS : 7681-11-0

TSCA : T S C A 8 (b) Inventory : Potassium Iodide

2) COMPOSITION AND INFORMATION ON INGREDIENTS

		EXPOSURE LIMITS			
Name	CAS	TWA (mg/m ³)	STEL (mg/m ³)	CEIL (MG/M ³)	% by Weight
Potassium Iodide	7681-11-0				100

Toxicological Data & Ingredients : Potassium Iodide
LD50 : Not Available
LC50 : Not Available
Lowest Published Lethal Dose.
LDL [Mouse] – Route : Oral; Dose : 1862 mg / kg
LDL [Rabbit] – Route : Oral; Dose : 916 mg / kg

3) HAZARDS IDENTIFICATION

Potential Acute Health Effects : Hazardous in case of Ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

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Potential Chronic Health Effects : Carcinogenic Effects : Not available.
Mutagenic Effects : Mutagenic for Mammalian somatic cells
Teratogenic Effects : Not available.
Developmental Toxicity : Classified Reproductive system/toxin/female,
Development toxin [POSSIBLE].
Repeated or Prolonged exposure is not known to aggravate medical condition.

4) FIRST AID MEASURES

Eye Contact : Check for and removal 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 if irritation occurs.

Skin Contact : Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

Serious Skin Contact : Not Available.

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

Serious Inhalation : Not available.

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.

5) FIRE & EXPLOSION DATA

Flammability of the product : Non-Flammable.

Auto-Ignition Temperature : Not applicable.

Flash Points : Not applicable.

Flammable Limits : Not applicable.

Products of Combustion : Some hazardous decomposition products are : Hydrogen Iodide,
Oxides of Potassium, Iodine

Fire Hazards in presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances: Not Available

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 & Instruction : Not applicable

Special Remarks on Fire Hazards : Not available

Special Remarks on Explosion Hazards : Potassium Iodide + Fluorine Perchlorate will explode on contact.

6) ACCIDENTAL RELEASE MEASURES

Small Spill : Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

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Large Spill : Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7) HANDLING AND STORAGE

Precautions clothing. : Keep locked up.. Do not breathe dust. Wear suitable protective

If you feel unwell, seek medical attention and show the label when possible. Keep away from incompatibles such as oxidizing agents, reducing agents, metals, acids, moisture.

Storage : Moisture Sensitive. Light Sensitive. Air Sensitive keep container tightly closed in light-resistant containers. Keep container in a cool, well-ventilated area. Do not store above 23° C (73.4 ° F)
Humidity below 65%.

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. 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.

9) PHYSICAL AND CHEMICAL PROPERTIES

Physical State and Appearance : Solid (Deliquescent Crystals Solid)

Molecular Weight : 166 g/mole

pH (1 % solution / water) : Not Available

Boiling Point : 1330 °C (2426 ° F)

Melting Point : 681 ° C (1257.8 ° F)

Critical Temperature : Not Available

Specific Gravity : 3.1 (Water = 1)

Vapor Pressure : Not Applicable

Vapor Density : Not Available

Volatility : Not Available

Odor Threshold : Not Available

Water / Oil Dist. Coeff. : Not Available

Ionicity (in water) : Not Available

Dispersion Properties : See solubility in water, methanol, acetone

Solubility : Insoluble in cold water, hot water. Soluble in methanol. Partially soluble in acetone.

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10) STABILITY AND REACTIVITY DATA

Stability	:	The product is stable.
Instability Temperature	:	Not available.
Conditions of Instability	:	Light, moisture, incompatible materials. It is stable under ordinary conditions of use and storage. On long exposure to air, it becomes yellow due to release of Iodine.
Incompatibility with various substances	:	Reactive with oxidizing agents, reducing agents, organic materials, metals, acids.
Corrosivity	:	Corrosive in presence of steel, of aluminium, of zinc. Non corrosive in presence of glass, of copper, of stainless steel (304), of stainless steel (316)
Special Remarks on Reactivity	:	Moisture sensitive. Light sensitive. Air sensitive. Air causes decomposition to iodine. Reacts violently with strong oxidizers, bromotrifluorides, chlorotrifluorides, fluorine perchlorate, metallic salts. Attacks metals in moist environments. Also, incompatible with salts of alkaloids, chloral hydrate, calomel (mercurous chloride), potassium chlorate, tartaric and other acids, oxidants, diazonium salts, charcoal, ozone, strong reducers, alkali metals, metals (brass, aluminium magnesium, zinc, cadmium, copper, tin, nickel, steel), metallic salts, organic materials, light.
Special Remarks on Corrosivity	:	Incompatible with water, producing a corrosive. Corrosive in all concentrations to most metals, except stainless steel, titanium and tantalum.
Polymerisation	:	Will not occur.

11) TOXICOLOGICAL INFORMATION

Routes of Entry	:	Inhalation. Ingestion.
Toxicity to Animals	:	LD50 : Not Available. LC50 : Not Available.
Chronic effects on Humans	:	MUTAGENIC EFFECTS : Mutagenic for mammalian somatic cells. DEVELOPMENTAL TOXICITY : Classified Reproductive system/toxin/female, development toxin [POSSIBLE].
Other Toxic effects on Human contact	:	Hazardous in case of ingestion. Slightly hazardous in case of skin (irritant), of inhalation.
Special Remarks on Toxicity to animals	:	Not available.
Special Remarks on Chronic Effects on Humans:	:	Can cause adverse reproductive effects and birth defects based on animal data. May affect genetic material based on animal data.

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Special Remarks on other Toxic effects on Humans: Acute Potential Health Effects.

Skin : May cause skin irritation

Eyes : May cause eye irritation

Inhalation: May cause respiratory tract irritation

Ingestion : Causes gastrointestinal tract irritation with nausea, vomiting and diarrhea. May affect behavior (somnia, muscle weakness) Chronic potential health effects : Can lead to iodism characterized by salivation, nasal discharge, sneezing, conjunctivitis, fever, headache, laryngitis, bronchitis, stomatitis, parotitis, and skin rashes. Chronic ingestion may also affect metabolism, and thyroid gland. Further more, chronic ingestion of iodides (in animals) during pregnancy has resulted in fetal deaths, severe goiter and cretinoid appearance of the newborn.

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 Product	:	Not available.

13) DISPOSAL CONSIDERATIONS

Water Disposal	:	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
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14) TRANSPORT INFORMATION

DOT Classification	:	Not a DOT controlled material (United States)
Identification	:	Not applicable
Special Provisions for Transport	:	Not applicable

15) OTHER REGULATORY INFORMATION

Federal and State Regulations	:	TSCA 8(b) inventory : Potassium Iodide
California Proposition 65 Warnings	:	
Other Regulations	:	EINECS : This product is on the European Inventory of Existing Commercial Chemical Substances.
Other Classification	:	WHMIS (Canada) : Class D-2 : Material causing other toxic effects (VERY TOXIC)

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	:	DSCL (EEC)	:	R40 – Possible risks of irreversible effects.
			:	R62 – Possible risk of impaired fertility.
			:	R63 – Possible risk of harm to the unborn child.
			:	S24/25 – Avoid contact with skin and eyes.
Protective Equipment	:	Gloves		
	:	Lab Coat		
	:	Dust Respirator. Be sure to use an approved / certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate		
	:	Safety Glasses.		

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, G. Amphray Laboratories assumes no responsibility for the completeness or accuracy of the information contained herein.

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For G. AMPHRAY LABORATORIES

AUTHORISED SIGNATORY