

Safety Data Sheet Potassium Iodide

Section 1 Product Information

Product Identifier: Potassium Iodide Stabilizer
Chemical Name and Synonyms: Hydriodic acid, potassium salt
Product Use: Industrial use, Dietary source of iodine
Distributed by: B-303, Anand Square,
Near Anand vihar, Tragad
Village, Ahmedabad-382470,
Gujarat, India.
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Section 2 Hazard Identification

Class D2A

DANGER! Causes skin and eye irritation. Harmful if inhaled or swallowed. Dust is irritating to respiratory tract. May cause teratogenicity effects. Can cause adverse reproductive effects.

Section 3 Hazardous Ingredients

Ingredient	Synonyms	CAS #	Concentration *
Potassium Iodide	Potassium Mon iodide , Hydriodic Acid, Potassium Salt	7681-11-0	90%
Calcium Stearate	None	1592-23-0	10%

*All concentrations are a percentage by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Section 4 First Aid Measures

Eyes:

Immediately flush eyes with copious quantities of water for at least 15 minutes holding lids apart ensure flushing of the entire surface. Call a physician.

Skin:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash contaminated clothing before reusing.

Inhalation:

Remove patient to fresh air. Administer approved oxygen supply if breathing is difficult. Administer artificial respiration or CPR if breathing has ceased. Call a physician.

Ingestion:

If conscious, wash out mouth with water. Have conscious person drink 2-3 glasses of milk or water (less

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effective). DO NOT induce vomiting. DO NOT give acidic agents; this may cause an exothermic reaction and burn the oesophagus. Never give anything by mouth to an unconscious or convulsing person. Call a physician.

Note to Physician:

Treat symptomatically. May cause severe pneumonitis if aspirated. If ingestion has occurred less than 2 hours earlier, carry out careful gastric lavage to prevent aspiration. Observe patient for respiratory difficulty from aspiration pneumonitis.

Section 5 Fire Fighting Measures

Extinguish Media:

Use extinguishes media appropriate for surrounding materials.

Unsuitable Extinguishing Media:

N/A

Specific Hazard:

Spilled material may cause floors and contact surfaces to become slippery.

Hazardous Combustion Products:

Oxides of potassium, hydrogen iodide, iodine fumes.

Special Protective Equipment:

Use self-contained breathing apparatus and full protective clothing.

Fire Fighting Instructions:

Fire-exposed containers should be kept cool by spraying with water to reduce pressure.

Section 6 Accidental Release Measures

Personal Precautions:

Wear respirator, protective clothing and gloves.

Environmental Precautions:

Do not flush into sewers or waterways.

Cleanup Procedure:

Dike or contain spill. Sweep up and place in an approved container, Clean up residues with water. Ventilate spill area.

Section 7 Handling and Storage

Handling:

Do not breathe mists, Do not ingest. Do not get in eyes, on skin or on clothing. Wash well after use. Do not allow smoking and food consumption while handling. Sweep up immediately to eliminate slippery hazard.

Storage:

Store in a cool, dry and well-ventilated area. Keep container tightly closed. Keep away from heat, sparks and flame. Protect against physical damage. Store away from incompatible materials.

Storage Incompatibility:

Attacks metals in presence of moisture.

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Section 8 Personal Exposure Control

Exposure Limits:

Chemical Name	Type	Exposure Limit	Source
Potassium Iodide	TWA*	N/A	N/A
	STEL**	N/A	N/A
Calcium Stearate	TWA*	N/A	N/A
	STEL**	N/A	N/A

*TWA: Time-weighted average

**STEL: Short term exposure limits.

Engineering Controls:

Local exhaust ventilation is recommended.

Protective Clothing:

Wear an impermeable apron and boots.

Hand Protection:

Wear neoprene, butyl rubber, natural rubber, nitrile rubber gloves. Prior to use, user should confirm impermeability.

Eye Protection:

Chemical safety goggles are recommended. Contact lenses should not be worn when working with this material.

Respiratory Protection:

No specific guidelines available. Wear NIOSH approved equipment according to the concentrations.

Other Protective Equipment:

Ensure that eyewash station and safety shower is proximal to the work-station location.

Section 9 Physical and Chemical Properties

Physical State:	Solid	Vapor Pressure:	N/A
Colour and Odor:	White, odorless	Vapor Density:	N/A
Odor Threshold:	N/A	Specific Gravity:	3.1
pH:	6-9 (5% solution)	Solubility:	Water, ethyl alcohol, methanol, acetone
Melting/Freezing Point:	680°	Flammability:	Not flammable
Boiling Point:	1330°C	Flash Point:	N/A
Decomposition Temperature:	N/A	Auto-Ignition Temperature:	N/A
Evaporation Rate:	N/A	Lower Flammable Limit:	N/A
Partition Coefficient:	N/A	Upper Flammable Limit:	N/A

Section 10 Stability and Reactivity

Chemical Stability:

Stable

Incompatible Materials:

Strong oxidizers, acids, salts of metals, potassium chlorate, perchlorates, dia-zonium salts, tartaric acid, metals, bromine and chlorine tri-fluorides and perchlorates

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Conditions to Avoid:

Avoid high temperatures, sparks, open flames and all other sources of ignition. On long exposures to air becomes yellow due to the release of iodine. Air sensitive. Avoid moisture contamination.

Hazardous Reactions:

Hazardous polymerization will not occur.

Mechanical Impact Sensitivity:

No

Static Discharge Sensitivity:

No

Vibration Sensitivity:

N/A

Hazardous Decomposition Products:

Oxides of potassium, hydrogen iodide, iodine fumes.

Section 11 Toxicological Properties

Routes of Entry:

Inhalation and ingestion. Eye and skin contact.

Acute Health Effects

Skin Contact:

May cause drying of the skin due to absorption of moisture and oils. In the presence of moisture (perspiration, humidity, tears) the dust dissolves to form a solution which may cause burns. May cause skin sensitization.

Eye Contact:

Cause severe irritation with redness and pain, lachrymation and conjunctivitis.

Inhalation:

Irritating to the nose, throat and respiratory tract. May cause coughing and sneezing, shortness of breath.

Ingestion:

Causes severe burning and pain in the mouth, throat and abdomen. Vomiting, diarrhea and perforation of the oesophagus and stomach may occur.

Chronic Health Effects

Skin Contact:

N/A

Eye Contact:

N/A

Inhalation:

Prolonged or repeated exposure may cause headaches, weakness, thyroid effects, anemia, goiter, idoism (salivation, weakness, sneezing, and lacrimation) and central nervous system depression.

Ingestion:

N/A

Carcinogenicity

N/A

Mutagenicity

N/A

Teratogenicity

Possible

Reproductive Toxicity

Possible

Toxicity Details

Chemical Name

LD50 (rat-oral)

LC50 (rat-inh)

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Potassium Iodide	4800 mg/kg	N/A
Calcium Stearate	N/A	N/A

Section 12 Ecological Information

Eco toxicity:

N/A May be harmful to aquatic life at low concentrations.

Persistence and Degradability:

N/A

Bio accumulative Potential:

N/A

Mobility in Soil:

N/A

Other Hazardous Effects:

N/A

Section 13 Disposal Considerations

General Information:

Dispose of in accordance with federal, provincial and local regulation.

Disposal Methods:

Dispose of waste material at an approved waste treatment/disposal facility. Do not dispose of waste with normal garbage, or to sewer systems. Empty containers may retain product residue and can be hazardous. Treat package in the same manner as the product.

Section 14 Transport Information

Shipping Name	Hazard Class	UN #	Packing Group
Potassium Iodide Stabilized	Not regulated	Not regulated	Not regulated

Marine Pollutant:

N/A

Special Instructions:

N/A

Section 15 Regulatory Information

Canada:

CEPA-NSNR: This material is included on the DSL under the CEPA.

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Section 16 Other Information

Important:

The information presented herein is believed to be accurate and is offered only as a guide. Users should make their own tests to determine the suitability of these products for their own particular purposes. Users assume all risk of use, storage and handling of the product. No warranty, express or implied, is made including, but not limited to, implied warranties of merchantability and fitness for a particular purpose. Nothing contained herein shall be constructed as a license to operate under, or recommendation to infringe any patents.