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**Material Safety Data Sheet**

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<b>Product Name</b>	<b><u>Potassium iodide</u></b>
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**Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE  
COMPANY/UNDERTAKING**

**1.1. Product identification:****Product Description:** Potassium iodide**Synonyms:** Not available**CAS-No:** 7681-11-0**EC-No.:** 231-659-4**REACH Registration No:** Not available**1.2. Relevant identified uses of the substance or mixture and uses advised against:****Recommended Use:** Laboratory chemicals, Manufacture of substances**1.3. Details of the supplier of the safety data sheet:**

- **Company** **Finar Limited**  
184-186/P, Chacharwadi Vasna,  
Sarkhej-Bavla Highway,  
Ta.: Sanand, Dist.: Ahmedabad-382110, Gujarat, India.  
Web: [www.finarchemicals.com](http://www.finarchemicals.com)
- **E-Mail Address** [safety.finar@aceto.com](mailto:safety.finar@aceto.com); [info.finar@aceto.com](mailto:info.finar@aceto.com)

**1.4. Emergency Telephone Number:**

- For Emergency contact on: +91 - 2717 - 616 717

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**SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture:****Classification according to Regulation (EC) No 1272/2008**

Specific target organ toxicity - repeated exposure, Oral (Category 1), Thyroid, H372

For the full text of the H-Statements mentioned in this Section, see Section 16.

**2.2. Label Elements:****Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms

**Signal word: Danger****Hazard statements**

H372 Causes damage to organs (Thyroid) through prolonged or repeated exposure if swallowed.

**Precautionary statements**

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P314 Get medical advice/ attention if you feel unwell.

P501 Dispose of contents/ container to an approved waste disposal plant.

**Supplemental Hazard Statements**

None

**Reduced Labelling (<= 125 ml)**

Hazard pictograms

**Signal word: Danger**

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### Hazard statements

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P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

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P314 Get medical advice/ attention if you feel unwell.

P501 Dispose of contents/ container to an approved waste disposal plant.

### 2.3. Other Hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

3.1. **Substances:** Potassium iodide

3.2. **Mixtures:**

Component	CAS-No	EC-No.	Weight %
Potassium iodide	7681-11-0	231-659-4	< = 100%

## **SECTION 4: FIRST AID MEASURES**

4.1. **Description of first aid measures:**

- **General advice**

Show this safety data sheet to the doctor in attendance.

- **If inhaled**

After inhalation: fresh air. Call in physician.

- **If case of skin contact**

Take off immediately all contaminated clothing. Rinse skin with water/ shower.

- **In case of eye contact**

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After eye contact: rinse out with plenty of water. Remove contact lenses.

- **If swallowed**

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

**4.2. Most important symptoms and effects, both acute and delayed:**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

**4.3. Indication of any immediate medical attention and special treatment needed:**

No data available

**SECTION 5: FIREFIGHTING MEASURES**

**5.1. Extinguishing media:**

**Suitable Extinguishing Media-** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media-** For this substance/mixture no limitations of extinguishing agents are given.

**5.2. Special hazards arising from the substance or mixture:**

Hydrogen iodide

Potassium oxides

Not combustible.

Ambient fire may liberate hazardous vapours.

**5.3. Advice for firefighters:**

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

**5.4 Further Information:**

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures:**

Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances.

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Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

**6.2. Environmental precautions:**

Do not let product enter drains.

**6.3. Methods and material for containment and cleaning up:**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

**6.4. Reference to other sections:**

For disposal see Sections 13.

**SECTION 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling:**

Wear personal protective equipment/face protection. Ensure adequate ventilation.

Avoid ingestion and inhalation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

Wash hands before breaks and after work.

**7.2. Conditions for safe storage, including any incompatibilities:**

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from direct sunlight.

Store under an inert atmosphere. Protect from moisture.

**7.3. Specific end use(s):**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters:**

**Ingredients with workplace control parameters**

**8.2. Exposure Controls:**

**Personal Protective Equipment:**

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**Eye & Face Protection-**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

**Skin Protection -**

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D- 36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

**Full contact**

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

**Splash contact**

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: KCL 741 Dermatril® L

**Body Protection-**

Protective clothing

**Respiratory Protection-**

Required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P2

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

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**Environmental Exposure Controls-**

Do not let product enter drains.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties:**

- **Appearance:** white / crystalline
- **Physical State:** Solid
- **Odor:** Odorless
- **Odor Threshold:** No data available
- **pH:** 6 - 8 (5% in water )
- **Melting Point:** 681 °C
- **Critical Temperature:** No data available
- **Vapor Pressure:** ca.1 hPa at 745 °C
- **Relative Vapor Density:** No data available
- **Viscosity Dynamic:** No data available
- **Viscosity Kinematic:** No data available
- **Lower Explosive Limit:** No data available
- **Upper Explosive Limit:** No data available
- **Decomposition Temperature:** No data available
- **Volatility:** No data available
- **Density:** 3.13 g/cm<sup>3</sup>
- **Water/Oil Dist. Co eff.:** No data available
- **Ionicity (in Water):** No data available
- **Boiling Point/Range:** 1330 °C
- **Flash Point:** No data available
- **Specific Gravity:** No data available
- **Ignition Temperature:** No data available
- **Water Solubility:** 1.43 kg/L

**9.2. Other information:**

- **Molecular Weight:** 166 g/mol

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- **Molecular Formula:** KI

**SECTION 10: STABILITY AND REACTIVITY**

**10.1. Reactivity:**

No data available

**10.2. Chemical stability:**

The product is chemically stable under standard ambient conditions (room temperature).

May decompose on exposure to air and moisture.

**10.3. Possibility of hazardous reactions:**

No data available

**10.4. Conditions to avoid:**

Excess heat. Avoid dust formation. Exposure to moist air or water. Exposure to air. Exposure to light.

Tin/tin oxides

**10.5. Incompatible materials:**

Strong oxidizing agents.

**10.6. Hazardous decomposition products:**

Hydrogen iodide.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Acute Oral toxicity**

Oral: No data available

Inhalation: No data available

LD50 Dermal - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 402)

**Skin corrosion/irritation**

Skin - Rabbit

Result: No skin irritation - 4 h

(OECD Test Guideline 404)

**Serious Eye damage/eye irritation**



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No data available

**Respiratory or Skin sensitization**

Patch test: - In vitro study

Result: negative

Remarks: (ECHA)

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

**Germ cell mutagenicity**

No data available

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: without metabolic activation

Method: OECD Test Guideline 476

Result: negative

**Carcinogenicity**

No data available

**Reproductive toxicity**

Exposure to excessive amounts of iodine during pregnancy is capable of producing fetal hypothyroidism.

Iodine-containing drugs have been associated with fetal goiter.

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

Ingestion - Causes damage to organs through prolonged or repeated exposure. - Thyroid

**Aspiration hazard**

No data available

**11.2 Additional Information:**

RTECS: TT2975000

Prolonged exposure to iodides may produce iodism in sensitive individuals. Symptoms of exposure include: skin rash, running nose, headache and irritation of the mucous membrane. For severe cases the skin may show pimples, boils, hives, blisters and black and blue spots. Iodides are readily diffused across the placenta. Neonatal deaths from respiratory distress secondary to goiter have been reported. Iodides have been known to cause drug-induced fevers, which are usually of short duration.

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To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After absorption of toxic quantities:

drop in blood pressure

paralysis symptoms

agitation

Vomiting

The following applies to iodides in general: Sensitisation possible in predisposed persons.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Liver - Irregularities - Based on Human Evidence

## **SECTION 12: ECOLOGICAL INFORMATION**

### **12.1. Toxicity:**

#### **Toxicity to fish:**

Static test LC50 - *Oncorhynchus mykiss* (rainbow trout) - 3.780 mg/l - 96 h

(OECD Test Guideline 203)

#### **Toxicity daphnia and other aquatic invertebrates:**

Static test EC50 - *Daphnia magna* (Water flea) - 7,5 mg/l - 48 h

(OECD Test Guideline 202)

### **12.2 Persistence and degradability:**

The methods for determining the biological degradability are not applicable to inorganic substances.

### **12.3 Bioaccumulate potential:**

No data available

### **12.4 Mobility in soil:**

No data available

### **12.5 Results of PBT and vPvB assessment:**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **12.6 Other adverse effects:**

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No data available

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods:

See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

### SECTION 14: Transport information

	Land transport (ADR/RID)	Air transport (IATA)	Sea transport (IMDG)
14.1 UN number	-		
14.2 Proper shipping name	Not dangerous goods		
14.3 Class	-		
14.4 Packing group	-		
14.5 Environmentally hazardous	No	No	No
14.6 Special precautions for user	No data available		
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not Relevant		

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

##### Other regulations

Take note of Dir 94/33/EC on the protection of young people at work.

#### 15.2 Chemical safety assessment:

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For this product, a chemical safety assessment was not carried out.

**SECTION 16: Other information**

**Full text of H-Statements referred to under sections 2 and 3.**

H372 Causes damage to organs through prolonged or repeated exposure if swallowed.

**Training advice: -**

Provide adequate information, instruction and training for operators.

**References:** Not available

**Created:** 20/12/2021

**Disclaimer:**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Finar Limited be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Finar Limited has been advised of the possibility of such damages.