

	SAFETY DATA SHEET
POTASSIUM IODIDE	Doc. No. DS/EHS/401
	Rev. No. R4
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1. Identification of the Substance / Preparation and of the Company / Undertaking

Substance Name : Potassium Iodide

CAS: 7681-11-0

Manufacturer : Nanjing Chemical Material Corp.
No.5 New Model Rd, Nanjing 210009, China

Emergency Contact : +86 25 52337978(Office hours)

Web : www.njchm.com

2. Hazards Identification

Classification as per EC Regulation 1272/2008

H302 : Harmful if swallowed

H315 : Causes skin irritation.

H319 : Causes serious eye irritation.

Classification as per D. 67/548/EEC Amended by D.93/72/EEC

Xn – HARMFUL

R22 : Harmful if swallowed

R38 : Irritating to skin

R36 : Irritating to eyes

Potential Health Effects

Inhalation:

May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

Skin Contact:

May cause irritation with redness and pain.

Eye Contact:

May cause irritation, redness and pain.

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Ingestion:

Large oral doses may cause irritation to the gastrointestinal tract.

Chronic Exposure:

Chronic ingestion of iodides may produce "iodism," which may be manifested by skin rash, running nose, headache and irritation of mucous membranes. Weakness, anemia, loss of weight, and general depression may also occur.

Aggravation of Pre-existing Conditions:

No information found.

3. Composition / Information on Ingredients

CAS No : 7681-11-0
 EC No. : 231-659-4
 Concentration : 99-100%

4. First Aid Measures**Inhalation:**

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion:

Give plenty of water to drink. If feeling unwell, get medical attention.

Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

5. Fire Fighting Measures**Fire:**

Not considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard.

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Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Special Information:

Fire may release hydrogen iodide gas. In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full face piece.

6. Accidental Release Measures**Personal precautions**

Avoid contact with skin and eyes. Wear personal protective equipment as specified in Section 8. Ventilate area of leak or spill.

Environmental precautions

Do not let product enter drains. Sweep up and containerize spills for reclamation or disposal.

7. Handling and Storage**Handling:**

Do not get on skin or in eyes. Avoid ingestion and inhalation. Wear personal protective equipment as specified in Section 8. Use with adequate ventilation. Minimize dust generation and accumulation.

Storage :

Store in a cool, dry place.
Product cakes on storage. Keep container tightly closed.

8. Exposure Controls / Personal Protection**Airborne Exposure Limits:**

ACGIH (TWA) for Iodides:
0.01 ppm for inhalable fraction and vapor.

Personal Protective Equipment**Eyes:**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Hand protection:

Wear PVC gloves of 1.2 to 1.4 mm thickness.

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Skin Protection:

Wear a chemical apron and PVC shoes.

Respiratory Protection:

No protection required for low concentrations or short exposures.

For higher concentrations or longer exposures use half mask approved as per local regulations

9. Physical and Chemical Properties

Appearance	:	White crystals.
Odour	:	Odourless.
pH (10% Sol)	:	7-9
Specific Gravity	:	3.1
Vapour pressure	:	1 @ 745°C (1373°F)
Water Solubility	:	140 grams/100 gm in water
Melting Point	:	680°C (1256°F)
Boiling Point	:	1330°C (2426°F)

10. Stability and Reactivity**Stability:**

Stable under ordinary conditions of use. Cakes hard on storage. On long exposure to atmosphere becomes yellow due to release of iodine.

Conditions to Avoid:

None.

Materials to avoid :

Alkali metals, ammonia, halogen-halogen compound, hydrogen peroxide, perchloryl fluoride and oxidizing agents.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products:

Hydrogen Iodide and Iodine in contact with oxidizing agents.

11. Toxicological Information**Acute Toxicity:**

Ingestion : Slightly harmful by ingestion.
LD50/Oral/Rat: 2.1 g/Kg

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Local Effects: Inhalation : Possible irritation of respiratory system
 Skin Contact : Irritating by prolonged contact
 Eye Contact : Risk of eye irritation.

Chronic Effects on Human:

No long term animal studies have been performed to evaluate Carcinogenic potential, Mutagenic potential or its effect on fertility in males or females.

Chronic Potential Health Effects:

Can lead to iodism characterized by salivation, nasal discharge, sneezing, conjunctivitis, fever, headache, laryngitis, bronchitis, stomatis, parotitis, anemia and skin rashes. Chronic ingestion may also affect metabolism, and thyroid gland.

12. Ecological Information

Toxicity to Fish

LC 50 dose : 8.960 mg/l (Rainbow trout)
 Exposure time : 96 Hrs

Products of Biodegradation:

Hazardous short term degradation products are not known. However, long term degradation products may arise.

Additional information

Do not allow to enter waters, waste water or soil.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

International (Water, I.M.O.)

Proper Shipping Name : Potassium Iodide
 Hazard Class : Not Classified as dangerous in
 Transport regulation.

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15. Regulatory Information

Labelling requirements

(EC Regulation 1272 / 2008).

EINECS Nr. 231-659-4
Label Name Potassium Iodide



GHS07

Signal Word : **Warning.**

Hazard Phrases (H phrases) to be put on label:

H302 : Harmful if swallowed
H315 : Causes skin irritation.
H319 : Causes serious eye irritation.

Precautionary Statements (P phrases) to be put on label:

P280 : Wear protective gloves/protective clothing/eye protection/
face protection
P301+ 330+ IF SWALLOWED: Rinse mouth, Do NOT induce vomiting
P331+P313 : Get medical advice/attention.
P303+P352 : IF ON SKIN (or hair): Wash with plenty of soap and water.
P305+P351 : IF IN EYES: Rinse cautiously with water for several
minutes.
P501 : Dispose of contents /container in accordance with local
regulations

Labeling as per 67/548/EEC or 1999/45/EC

Hazard Symbol :

Xn : Harmful

Risk Phrases :

R22 : Harmful if swallowed
R38 : Irritating to skin
R36 : Irritating to eyes

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Safety Phrases :

- S36+S37+S39: Wear suitable protective clothing / gloves / eye/face protection
- S62+ S64 : If swallowed, rinse mouth with water, do not induce vomiting: seek medical advice immediately
- S28 : After contact with skin, wash immediately with plenty of soap and water.
- S26 : In case of contact with eyes, rinse immediately with plenty of water

16. Other Information

Revision Information:

Revision 4. Effective 01/10/2010.

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.