

SDS

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Safety Data Sheet

1. IDENTIFICATION

Product Identifier: Potassium Iodide

Product Code(s): NC-11312, NC-11538, P1053

Synonyms: Potide; Iodic Acid, Potassium Salt

Recommended Use: For manufacturing, industrial, and laboratory use only. Use as a catalyst or as a laboratory

solute.

Uses Advised Against: Not for food, drug, or household use.

Supplier: Science Company

95 Lincoln St Denver, CO 80203

Phone: (303) 777-3777 Fax: (303) 777-3331

Emergency Phone Number: For health emergency call Poison Control: (800) 222-1222.

2. HAZARDS IDENTIFICATION

Hazard Classifications: This product is classified as not hazardous under OSHA's Hazard Communication

Standard, 29 CFR 1910.1200 (HCS) and the United Nations' Globally Harmonized System of Classification and Labeling of Chemicals (GHS). However, all chemicals handled and

used in the workplace should be treated with caution.

Signal Word: Not applicable.

Hazard Statements: Not applicable.

Pictograms: Not applicable.

Precautionary Statements:

Prevention: Not applicable.

Response: Not applicable.

Storage: Not applicable.

Disposal: Not applicable.

Hazards Not Otherwise

Classified:

Prolonged or repeated exposure to this product may cause thyroid effects and reproductive

effects.

Toxicity Statement: Not applicable.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	Common Name / Synonyms	CAS#	Chemical Formula	% by Weight
Potassium Iodide	lodic Acid, Potassium Salt	7681-11-0	KI	≥ 99

Trade Secret Statement: Not applicable.

4. FIRST AID MEASURES

First Aid Procedures:

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. Call a physician if symptoms occur.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs,

keep head low so that vomit does not enter lungs. Never give anything by mouth to an unconscious person. Call a physician or poison control center if symptoms occur.

Skin Contact: Wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated

clothing and shoes. Wash clothing before reuse. Call a physician if symptoms occur.

Eye Contact: Check for and remove contact lenses, if present and easy to do. Immediately flush eyes with

gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids

occasionally. Call a physician if symptoms occur.

General Advice: Poison information centers in each state can provide additional assistance for scheduled

poisons. Ensure that those providing first aid and medical personnel are aware of the

material(s) involved and take precautions to protect themselves.

Symptoms and Effects: May cause irritation if exposed to the skin or eyes.

Immediate Medical Care/

Special Treatment:

Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water spray, dry powder, alcohol resistant foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream, as it may scatter and spread fire.

Hazardous Combustion

Products:

Potassium oxides, hydrogen iodide.

Specific Hazards: Excessive thermal conditions may cause decomposition and yield hazardous combustion

products listed above.

Special Protective Equipment/

Precautions for Firefighters:

As in any fire, wear MSHA/NIOSH-approved (or equivalent), self-contained positive-

pressure or pressure-demand breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment:

Ventilate area of leak or spill. Isolate hazard area and keep unnecessary and unprotected personnel away from the area of the leak or spill. Wear appropriate personal protective

equipment (see Section 8). Avoid contact with eyes, skin, and clothing.

Emergency Procedures: In case of chemical emergency, or if unsure how to address an accidental release, consult a

professional (see Section 1).

Methods for Containment: Prevent entry into waterways, sewer, basements, or confined areas. Avoid generation of

product dust. Product should not be released to the environment. Contain and recover

crystal when possible.

Methods for Cleanup: Sweep or collect spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, or fleece)

and place in a non-combustible container for reclamation or disposal. Do not flush to sewer. Clean contaminated surface thoroughly. Residues from spills can be diluted with water. Never return spills in original containers for reuse. Clean up in accordance with all

applicable regulations.

7. HANDLING AND STORAGE

Handling: Wear personal protective equipment (see Section 8). Use only in well-ventilated areas.

Provide sufficient air exchange and/or exhaust in work rooms. Avoid contact with skin, eyes, and clothing. Avoid generation of dust. Do not breathe product dust. Avoid exposure to moisture. Do not ingest. When using, do not eat, drink, or smoke. Keep away from incompatible materials (see Section 10). Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Containers of this material may be

hazardous when empty, as they retain product residues. Observe all warnings and

precautions listed for this product.

Storage: Store in a cool, dry, ventilated area. Store in a segregated and approved area away from

heat and incompatible materials (see Section 10). Store in original container. Keep out of light. Keep containers tightly closed and upright. Keep away from food, drink, and animal foodstuffs. Keep out of the reach of children. Comply with all national, state, and local codes

pertaining to the storage, handling, dispensing, and disposal of this product.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits: ACGIH (TLV): 0.01 ppm

Engineering Controls: Ensure adequate ventilation. Ventilation rates should be matched to conditions. If

applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not

been established, maintain airborne levels to an acceptable level.

Personal Protective Measures:

Eye/Face Protection: Wear safety glasses with side shields or goggles and a face shield. Maintain approved eye

wash station and accessible rinse facilities in work area.

Skin Protection: Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical

resistant gloves.

Respiratory Protection: An air-purifying, NIOSH-approved respirator with an organic vapor cartridge or canister may

be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Use a positive-pressure, air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are unknown, or if any other circumstances exist where air-purifying respirators may not provide adequate protection.

Specific Requirements for Personal Protective

Ensure that glove material is compatible with this product. This information is available from glove manufacturers.

Equipment:

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White, opaque, crystalline solid.

Odor: Odorless.

Odor Threshold: No information found.

Formula Weight: 166.00

pH: $\approx 6.9 (5\% \text{ w/v solution at } 20 ^{\circ}\text{C})$

Melting/Freezing Point: 680 °C

Boiling Point/Range: 1330 °C

Decomposition Temperature: No information found.

Flash Point: Not applicable.

Auto-ignition Temperature: Not applicable.

Flammability: Not flammable.

Flammability/Explosive Limits: Not applicable.

Solubility: 58.8% w/w in water at 20 °C. Soluble in methanol.

0.04

Vapor Pressure: 1 mmHg at 745 °C
Vapor Density: No information found.

Specific Gravity: 3.1 (Water = 1)

Evaporation Rate: No information found.

Viscosity: No information found.

Partition Coefficient

(n-octanol/water):

10. STABILITY AND REACTIVITY

Reactivity Data: No information found.

Chemical Stability: Stable under normal conditions. Sensitive to light, air, and moisture.

Conditions to Avoid: Excessive heat, moisture, exposure to air, exposure to light, incompatible materials.

Incompatible Materials: Oxidizers, reducing agents, organic materials, metals, acids.

Hazardous Decomposition

Products:

Potassium oxides, hydrogen iodide, iodine.

Possibility of Hazardous

Reactions:

May react vigorously or violently with the incompatible materials listed above. Excessive thermal conditions may cause decomposition and yield potassium oxides and hydrogen

iodide. Contact with air or light may cause decomposition and yieldiodine.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure: Inhalation, ingestion, skin contact, eye contact.

Acute Effects: May be harmful if swallowed, inhaled, or exposed to the eyes. May cause irritation if

exposed to the skin or eyes.

Chronic Effects: Prolonged of repeated exposure may cause iodism, thyroid damage, and reproductive

effects.

Toxicological Data: No information found.

Symptoms of Exposure: Irritation, coughing, sneezing, shortness of breath, fever, headache, skinrashes.

Carcinogenic Effects: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicological Data: LC50 Rainbow Trout (Oncorhynchus mykiss): 3200 mg/L 120 h

Persistence and Degradability: No information found.

Environmental Effects: Not expected to be hazardous to the environment. However, the possibility of an

environmental hazard cannot be excluded in the event of unprofessional handlingor

disposal.

Partition Coefficient (n-octanol/water): 0.04

13. DISPOSAL INFORMATION

Disposal Instructions: Dispose of this material and its container to an approved waste collection point. Minimize

exposure to product waste (see Section 8). Do not dispose unused waste down drains or into sewers. All wastes must be handled in accordance with local, state, and federal

regulations.

Contaminated Packaging: Because emptied containers may retain product residue, follow label warnings even after

container is emptied. Offer rinsed packaging material to local recycling facilities.

Waste Codes: No information found.

14. TRANSPORT INFORMATION

DOT: Not regulated.

Environmental Hazard

Regulations:

No information found.

Other Transport Precautions: No information found.

15. REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA: This product is not considered a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Inventory: All components of this product are on the U.S. TSCA Inventory.

Product: Potassium Iodide Revision Date: 02/03/2015

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U.S. EPCRA (SARA Title III):

Section 302: No information found.

Sections 311/312:

Hazard Category	List (Yes/No)	
Section 311 – Hazardous Chemical	No	
Immediate Hazard	No	
Delayed Hazard	No	
Fire Hazard	No	
Pressure Hazard	No	
Reactivity Hazard	No	

CERCLA Reportable Quantities: No information found.

International Inventories:

Country or Region	Inventory Name	On Inventory (Yes/No)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

^{*}A "Yes" indicates that the listed component(s) of this product comply with the inventory requirements administered by the governing country(s)

16. OTHER INFORMATION

Disclaimer:

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