

Potassium Iodide, 50% w/v

Safety Data Sheet



Section 1

Product Description

Product Name: Potassium Iodide, 50% w/v
Manufacturer number: P11450-B
Distributor: Best Sanitizers, Inc.
PO Box 1360 Penn Valley, CA 95946
Chemical Information Emergency: 1.800.255.3924
Aquaphoenix Scientific

Section 2

Hazard Identification

Classification of the substance or mixture:

Acute Toxicity (oral,dermal,inhalation)	Category 4
Skin Irritation	Category 2
Eye Irritation	Category 2A
Specific target organ toxicity following single exposure	Category 3
Specific target organ toxicity following repeated exposure	Category 1

Danger



Appearance—Aqueous solution
Physical state—Liquid
Odor— Odorless

Hazard Statements

Causes serious eye irritation.
Harmful if swallowed.
Causes skin irritation.
May cause respiratory irritation.
Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use. Wear protective gloves/protective clothing/eye protection/face protection.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Use only outdoors or in a well-ventilated area.
Keep only in original container.

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IF ON SKIN (or hair): Remove/Takeoff immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see Section 4).

In case of fire: Use media appropriate for extinction. Store locked up.

Store in corrosive resistant container with a resistant inner liner. Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulation.

Precautionary Statements—Disposal

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

Hazards not otherwise classified (HNOC)

None

Other Information

Combustible Dust Hazard:

May form combustible dust concentrations in air (during processing).

Section 3

Composition/Information on Ingredients

Chemical Name	CAS No.	Weight-%
Potassium Iodide, ACS	7681-11-0	50
Potassium Hydroxide	1310-58-3	0.1

Section 4

First Aid Measures

First Aid Measures

Eye Contact

Hold eye(s) open and rinse slowly and gently with water for 30 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye(s). Get medical advice/attention.

Skin Contact

Wash affected area with soap and water. Rinse/flush exposed skin gently using water for 15-20 minutes. Seek immediate medical attention.

Inhalation

Remove to fresh air. Seek immediate medical attention if discomfort or irritation persists.

Ingestion

Rinse mouth thoroughly. Do NOT induce vomiting.

Drink sips of water.

Seek medical attention if irritation, discomfort or vomiting persists.

Most important symptoms and effects, both acute and delayed

Coughing. Nausea. Headache. Shortness of breath.

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Indication of any immediate medical attention and special treatment needed

DO NOT use mouth-to-mouth resuscitation without a barrier device to prevent responder from receiving burns.

If seeking medical attention, provide SDS document to physician.

Section 5

Fire-Fighting Measures

Suitable Extinguishing Media

If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate suppression agents for adjacent combustible materials or sources of ignition.

Unsuitable Extinguishing Media

None.

Specific hazards arising from the chemical

Thermal Decomposition can lead to release of irritating gases and vapors.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6

Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions

Use personal protection recommended in Section 8. Ensure adequate ventilation, especially in confined areas. Keep unprotected persons away. Keep away from ignition sources. Protect from heat. Stop the spill, if possible.

Environment Precautions

Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (See Section 13).

Methods for cleaning up

Use clean non-sparking tools to collect absorbed material. May be ignited by friction, heat, sparks or flames. Collect spillage. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Following product recovery, flush area with water.

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Section 7

Handling and Storage

Precautions for Safe Handling

Advice on Safe Handling

Do not eat, drink or smoke or use personal products when using this product. If in a laboratory setting, follow Chemical Hygiene Plan. Use only in well ventilated areas. Avoid contact with eyes, skin, and clothing. Wash hands after handling. Absorb spillage to prevent material damage. Follow good hygiene procedures when handling chemical materials.

Conditions for safe storage, including any incompatibilities

Storage Conditions/ Incompatible materials

Keep Containers tightly closed in a dry, cool and well-ventilated place. Avoid storage near extreme heat, ignition sources or open flame. Keep away from foodstuffs. Store with like hazards.

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Section 8

Protection Information

Exposure Guidelines

Control Parameters: 7681-11-0 Potassium Iodide, ACS, ACGIH NIOSH 0.01mg/m³
1310-58-3, Potassium Hydroxide, ACGIH TLV-C: 2 mg/m³ Ceiling.
OSHA PEL TWA (Total Dust) 15 mg/m³ (50 mppcf*).
ACGIH TLV TWA (Inhalable particles) 10 mg/m³

Appropriate Engineering Controls

Engineering Controls

Use in chemical hood only. Emergency eyewash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts below the applicable workplace exposure limits. Occupational exposure limits indicated above. Use under a fume hood. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area, no leakage from equipment.

Individual Protection Measures, such as personal protective equipment

Eye/Face protection

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear impermeable and resistant to the product/ substance/preparation protective gloves. Selection of glove material on consideration of the penetration times, rates of diffusion and degradation.

Respiratory protection

Not required under normal conditions of use. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Immediately remove all soiled and contaminated clothing. Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing and shoes before reuse. Do not Eat, Drink or Smoke when using this product. Do not inhale gases/fumes/dust/mist/vapors/aerosols. Avoid contact with the eyes and skin.

Section 9

Physical and Chemical Properties

Information on basic physical and chemical properties

Formula:	See Section 3	Physical State:	Liquid
Odor:	Odorless	Appearance:	Aqueous solution
Odor Threshold:	Not Determined	Color:	Clear

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Property

pH
Melting Point/Freezing Point
Boiling Point/Boiling Range
Flash Point
Evaporation rate
Flammability (solid, gas)
Flammability Limit in Air
 Upper flammability limit:
 Lower flammability limit:
Vapor pressure:
Vapor density:
Specific Gravity
Water solubility
Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity

Values

Not Determined
Approximately 0°C
Approximately 100°C
Not Determined.
Not Determined.
Not Determined.
Not Determined.
Not Determined.
Not Determined.
Not Determined.
2.04
Infinite Solubility in water.
No information available.
Not Determined.
Not Determined.
No information available.
No information available.

Section 10

Stability and Reactivity Data

Reactivity None.
Chemical Stability No decomposition if used and stored according to specifications.
Possibility of Hazardous Reactions None.

Conditions to avoid Store away from oxidizing agents, strong acids or bases.
Incompatible materials Acids, Metals, Strong acids.

Hazardous Decomposition Products Potassium oxides. Hydrogen gas. Carbon oxides.

Section 11

Toxicity Data

Acute Toxicity:
Oral: 1862 mg/kg (Mouse) ORAL (LDLo): Acute
Oral: 916 mg/kg (Rabbit) ORAL (LDLo): Acute
Dermal: > 1300 mg/kg bw LD C Dermal prefer rabbit
Oral: 284 mg/kg ORAL LD50 Rat

Sensitization No Information Available
Germ cell mutagenicity Carcinogenicity No Information Available
Reproductive toxicity No Information Available
STOT single exposure No Information Available
STOT repeated exposure No Information Available

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Section 12

Ecological Data

Ecotoxicity

None.

Persistence and degradability

Readily Biodegradable.

Bioaccumulation

Not Bioaccumulative.

Mobility in soil

None.

Other adverse events

None.

Section 13

Disposal Information

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.
Do not dispose together with household garbage. Do not allow product to reach sewage system or open water.

Section 14

Transport Information

DOT

Not Dangerous Goods.

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Section 15

Regulatory Information

International Inventories

TSCA Complies
DSL/NDSL Complies

Legend:

TSCA—United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL— Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization of 1986 (SARA).

None of the ingredients is listed.

SARA 311/312

None of the ingredients is listed.

CERCLA

1310-58-3 Potassium Hydroxide 1000 lbs.

US State Regulations

California Proposition 65

None of the ingredients is listed.

Section 16

Additional Information

<u>NFPA</u>	Health Hazards	Flammability	Instability	Physical and Chemical Properties
	1	0	0	None
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal protection
	1	0	0	X

Prepared by: Technical Department

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Version 3

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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 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.

End of Safety Data Sheet