

# SAFETY DATA SHEET



## 1. IDENTIFICATION

### Product identifier

**Product Name** Potassium Iodide, 50% w/v

### Other means of identification

Manufacturer number: PI1450-B

### Distributor Address

**Best Sanitizers, Inc.**  
PO Box 1360  
Penn Valley, CA 95946  
Toll Free: 888-225-3267

### Emergency telephone number


Aquaphoenix Scientific 1-800-255-3924

### Emergency Phone Numbers

## 2. HAZARDS IDENTIFICATION

### Classification

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

<b>Signal word</b>	<b>Danger</b>		
<b>Hazard statements</b>	Causes serious eye irritation. Harmful if swallowed. Causes skin irritation. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure.		
			
<b>Appearance</b>	Aqueous solution	<b>Physical State</b>	Liquid
		<b>Odor</b>	Odorless

#### **Precautionary Statements - Prevention**

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.

#### **Precautionary Statements - Response**

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.

#### **Precautionary Statements - Storage**

Store locked up. Store in corrosive resistant container with a resistant inner liner.

#### **Precautionary Statements - Disposal**

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

#### **Hazards not otherwise classified (HNOC)**

Not Applicable

#### **Other Information**

Combustible Dust Hazard:  
 May form combustible dust concentrations in air (during processing).

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Chemical Name</b>	<b>CAS No.</b>	<b>Weight %</b>	<b>Trade Secret</b>
Potassium Iodide, ACS	7681-11-0	50	
Potassium Hydroxide	1310-58-3	0.1	

\* The exact percentage (concentration) of composition has been withheld as a trade secret.

### **4. FIRST AID MEASURES**

#### **First aid measures**

**Eye Contact** Hold eye(s) open and rinse slowly and gently with water for 15-20 minutes. Remove

contact lenses, if present, after first 5 minutes, then continue rinsing eye(s). Seek immediate 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**

**Most Important Symptoms and Effects**

Coughing. Nausea. Headache. Shortness of breath.

**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.

---

**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.

**Hazardous combustion products:**

Carbon monoxide.

**Explosion Data**

**Sensitivity to Mechanical Impact**            None

**Sensitivity to Static Discharge**            None

**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.

---

---

**6. ACCIDENTAL RELEASE MEASURES**

---

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions**

Use personal protection recommended in Section 8.

**For emergency responders**

Ensure adequate ventilation, especially in confined areas. Keep unprotected persons away. Keep away from ignition sources. Protect from heat. Stop the spill, if possible.

**Environmental 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

**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.

---

**7. HANDLING AND STORAGE**

---

**Precautions for safe handling**

---

**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.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

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

*ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.*

**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.

**Hygiene Measures** 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

<b>Formula</b>	See Section 3		
<b>Physical State</b>	Liquid		
<b>Appearance</b>	Aqueous solution	<b>Odor</b>	Odorless
<b>Color</b>	Clear	<b>Odor Threshold</b>	No information available
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks/ Method</u></b>	
<b>pH</b>	Not determined		
<b>Melting/freezing point</b>	Approximately 0°C	None known	

---

<b>Boiling point / boiling range</b>	Approximately 100°C	None known
<b>Flash Point</b>	Not Flammable	N/A
<b>Evaporation rate</b>	Not Determined.	None known
<b>Flammability (solid, gas)</b>	Not Determined.	None known
<b>Flammability Limits in Air</b>		
<b>Upper flammability limit</b>	Not Determined.	None known
<b>Lower flammability limit</b>	Not Determined.	None known
<b>Vapor pressure</b>	Not Determined.	None known
<b>Vapor density</b>	Not Determined.	None known
<b>Specific Gravity</b>	2.04	None known
<b>Water Solubility</b>	infinite solubility in water	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient:</b>	No information available.	None known
<b>Autoignition temperature</b>	Not Determined.	None known
<b>Decomposition temperature</b>	Not Determined.	None known
<b>Kinematic viscosity</b>	No information available.	None known
<b>Dynamic viscosity</b>	No information available.	None known

## 10. STABILITY AND REACTIVITY

### Reactivity

None.

### Chemical stability

No decomposition if used and stored according to specifications.

### Possibility of Hazardous Reactions

None under normal processing.

### 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.

## 11. TOXICOLOGICAL INFORMATION

### 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	No Information Available
Carcinogenicity	No Information Available.
Reproductive toxicity	No Information Available
STOT single exposure	No Information Available
STOT repeated exposure	No Information Available
Aspiration Hazard	No Information Available

## 12. Ecological Data

### Ecotoxicity

None.

**Persistence and Degradability**

Readily biodegradable.

**Bioaccumulation**

Not Bioaccumulative.

**Mobility in soil**

None.

**Other adverse effects**

None.

**13. DISPOSAL CONSIDERATIONS**

**Disposal 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.

**14. TRANSPORT INFORMATION**

**DOT**

Not Dangerous Goods.

**15. REGULATORY INFORMATION**

**Chemical Inventories**

**TSCA** Complies  
**DSL/NDSL** Complies  
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**U.S. 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 Hazard Categories**

**Acute Health Hazard** No  
**Chronic Health Hazard** No  
**Fire Hazard** No  
**Sudden Release of Pressure Hazard** No  
**Reactive Hazard** No

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environment Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Potassium hydroxide 1310-58-3	1000 lbs	-	-

**US State Regulations**



**California Proposition 65**

None of the ingredients is listed.

**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazard</b>	1	<b>Flammability</b>	0	<b>Instability</b>	0	<b>Physical and Chemical Hazards</b>	
							None	
<b>HMIS</b>	<b>Health Hazard</b>	1	<b>Flammability</b>	0	<b>Physical Hazard</b>	0	<b>Personal Protection</b>	X

**Prepared By** Technical Department

**Preparation/Revision Date** June 6, 2024

**Version** 4

**Revision Note** Annual Review

**General 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.

**End of Safety Data Sheet**