

SAFETY DATA SHEET

Creation Date 26-Jan-2010

Revision Date 24-Dec-2021

Revision Number 5

1. Identification

Product Name

Potassium bijodate

Cat No. : P190-100

CAS No **Synonyms**

13455-24-8 Potassium hydrogen diiodate (Laboratory) **Recommended Use** Laboratory chemicals. Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Oxidizing solids Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system.

Category 2 Category 1 B Category 1 Category 3

Label Elements

Signal Word Danger

Hazard Statements

May intensify fire; oxidizer Causes severe skin burns and eye damage May cause respiratory irritation



Precautionary Statements Prevention

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

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep/Store away from clothing/ other combustible materials

Take any precaution to avoid mixing with combustibles

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

Eyes

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

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Compo	nent	CAS No	Weight %	
Iodic acid (HIO3), potassium salt (2:1)		13455-24-8	>95	
	4.	First-aid measures		
General Advice	eral Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.			
Eye Contact		Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing.		
Skin Contact		Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.		
Inhalation	Remove to free	Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison		

	control center immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Ingestion	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	CO $\ensuremath{\scriptscriptstyle 2}$, dry chemical, dry sand, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Oxidizing Properties	Oxidizer

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

The product causes burns of eyes, skin and mucous membranes. Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.).

Hazardous Combustion Products

Potassium oxides. Hydrogen iodide.

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

NFPA Health 3	Flammability 0	Instability 2	Physical hazards OX	
	6. Accidental rel	ease measures		
Personal Precautions Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.				
Environmental Precautions	Should not be released into the environment. Do not allow material to contaminate ground water system.			
Methods for Containment and (Up	Clean Avoid dust formation. Keep into suitable containers for		for disposal. Sweep up and shovel	
	7. Handling a	and storage		
Handling		quipment/face protection. Do	not get in eyes, on skin, or on	

clothing. Use only under a chemical fume hood. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from clothing and other

	combustible materials.		
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials. Corrosives area. Incompatible Materials. Strong oxidizing agents. Reducing Agent. Sulfides. Finely powdered metals. Strong reducing agents. Combustible material.		
8. E	Exposure controls / personal protection		
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.		
Engineering Measures	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.		
Personal Protective Equipment			
Eye/face Protection	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.		
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.		
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		

9. Physical and chemical properties				
Physical State	Solid			
Appearance	Off-white			
Odor	Odorless			
Odor Threshold	No information available			
рН	1-2 5% aq. sol			
Melting Point/Range	No data available			
Boiling Point/Range	No information available			
Flash Point	No information available			
Evaporation Rate	Not applicable			
Flammability (solid,gas)	No information available			
Flammability or explosive limits				
Upper	No data available			
Lower	No data available			
Vapor Pressure	No information available			
Vapor Density	Not applicable			
Specific Gravity	No information available			
Solubility	13 g/L (15°C)			
Partition coefficient; n-octanol/water	No data available			
Autoignition Temperature	No information available			
Decomposition Temperature	No information available			
Viscosity	Not applicable			
Molecular Formula	H I2 K O6			
Molecular Weight	389.9			

10. Stability and reactivity

Reactive Hazard	Yes
Stability	Oxidizer: Contact with combustible/organic material may cause fire. Hygroscopic. Light sensitive.
Conditions to Avoid	Incompatible products. Excess heat. Combustible material. Avoid dust formation. Exposure to moist air or water. Exposure to light.
Incompatible Materials	Strong oxidizing agents, Reducing Agent, Sulfides, Finely powdered metals, Strong reducing agents, Combustible material
Hazardous Decomposition Product	s Potassium oxides, Hydrogen iodide
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products Delayed and immediate effects as	No information available s as well as chronic effects from short and long-term exposure	
Irritation	Causes severe burns by all exposure routes	
Sensitization	No information available	

Sensitization Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
lodic acid (HIO3), potassium salt (2:1)	13455-24-8	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information available				
Reproductive Effec	ts	No information available.				
Developmental Effects No information available.						
Teratogenicity	eratogenicity No information available.					
• •	TOT - single exposureRespiratory systemTOT - repeated exposureNone known					
Aspiration hazard No information available						
Symptoms / effects delayed	s,both acute and	te and Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation				
Endocrine Disrupto	r Information	nformation No information available				
Other Adverse Effe	cts	The toxicological properties have not been fully investigated.				
12. Ecological information						
Ecotoxicity						

Do not empty into drains.

Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.		
Bioaccumulation/ Accumulation	No information available.		
Mobility	Will likely be mobile in the environment due to its water solubility.		
	13. Disposal considerations		
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.		

14. Transport information

DOT	
UN-No	UN3085
Proper Shipping Name	Oxidizing solid, corrosive, n.o.s.
Hazard Class	5.1
Subsidiary Hazard Class	8
Packing Group	II
TDG	
UN-No	UN3085
Proper Shipping Name	Oxidizing solid, corrosive, n.o.s.
Hazard Class	5.1
Subsidiary Hazard Class	8
Packing Group	II
UN-No	UN3085
Proper Shipping Name	OXIDIZING SOLID, CORROSIVE, N.O.S.*
Hazard Class	5.1
Subsidiary Hazard Class	8
Packing Group	II
IMDG/IMO	
UN-No	UN3085
Proper Shipping Name	Oxidizing solid, corrosive, n.o.s.
Hazard Class	5.1
Subsidiary Hazard Class	8
Packing Group	

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
lodic acid (HIO3), potassium salt (2:1)	13455-24-8	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
lodic acid (HIO3), potassium salt	13455-24-8	Х	-	236-650-9	Х	Х	Х	Х	Х	KE-29130

(2:1)									
KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)									
U.S. Federal Regulations									
SARA 313	Not appli	Not applicable							
SARA 311/312 Hazard Categories	See sect	See section 2 for more information							
CWA (Clean Water Act)	Not applicable								
Clean Air Act	Not applicable								
OSHA - Occupational Safety and Health Administration	Not appli	Not applicable							
CERCLA	Not appli	cable							
California Proposition 65	This proc	luct doe	s not con	itain any P	ropositior	1 65 cherr	nicals.		
U.S. State Right-to-Know Regulations	Not appli	cable							
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	n N N N								
U.S. Department of Homeland Security	This proc	luct doe	s not con	itain any D	HS chem	icals.			
Other International Regulations									
Mexico - Grade	No inform	nation a	vailable						

Authorisation/Restrictions according to EU REACH

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
lodic acid (HIO3), potassium salt (2:1)	13455-24-8	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
lodic acid (HIO3), potassium salt (2:1)	13455-24-8	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

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Creation Date	26-Jan-2010
Revision Date	24-Dec-2021
Print Date	24-Dec-2021
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard
-	replacing the current legislation under 29 CFR 1910.1200 to align with the Globally
	Harmonized System of Classification and Labeling of Chemicals (GHS).

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 SDS