

SAFETY DATA SHEET

Creation Date 14-Sep-2009

Revision Date 13-Oct-2023

Revision Number 8

1. Identification

P410-10; P410-100; P410-3; P410-500

Product Name

Potassium iodide

Cat No. :

Synonyms

CAS No

7681-11-0 Knollide; Potide

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

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)

Specific target organ toxicity - (repeated exposure) Target Organs - Thyroid. Category 1

Label Elements

Signal Word Danger

Hazard Statements

Causes damage to organs through prolonged or repeated exposure



Precautionary Statements Prevention Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Response Get medical attention/advice if you feel unwell Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Potassium iodide	7681-11-0	>95

4. First-aid measures					
General Advice	If symptoms persist, call a physician.				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.				
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.				
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.				
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.				
Most important symptoms and	. May cause pulmonary edema				
effects Notes to Physician	Treat symptomatically				

5. Fire-fighting measures

Unsuitable Extinguishing Media	No information available	
Flash Point	No information available	
Method -	No information available	
Autoignition Temperature Explosion Limits	No information available	
Upper	No data available	
Lower	No data available	

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

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

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.

NFPA Health 1	Flammability 0	Instability 1	Physical hazards N/A		
	6. Accidental re	elease measures			
Personal Precautions	Ensure adequate ventilati formation.	on. Use personal protective equ	ipment as required. Avoid dust		
Environmental Precautions	Should not be released in	to the environment.			
Methods for Containment and Cle Up	Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed Up containers for disposal.				
7. Handling and storage					
Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid formation. Do not get in eyes, on skin, or on clothing					
Storage.Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from direct sunlight. Store under an inert atmosphere. Protect from moisture. Incompatible Material Strong oxidizing agents.					

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)
Potassium iodide	TWA: 0.01 ppm			

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
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.

Recommended Filter type:

Particle filter.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. Physical	and chemical properties
Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
pH	6-8 5% in water (20°C)
Melting Point/Range	680 °C / 1256 °F
Boiling Point/Range	1330 °C / 2426 °F @ 760 mmHg
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	1 mmHg @ 745 °C
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	IK
Molecular Weight	166
10. St	ability and reactivity

Reactive Hazard	None known, based on information available			
Stability	Air sensitive. Light sensitive. Hygroscopic.			
Conditions to Avoid	Excess heat. Avoid dust formation. Exposure to moist air or water. Exposure to air. Exposure to light.			
Incompatible Materials	Strong oxidizing agents			
Hazardous Decomposition Products Hydrogen iodide				
Hazardous Polymerization	Hazardous polymerization does not occur.			
Hazardous Reactions	None under normal processing.			

11. Toxicological information

Acute Toxicity

Product Information

Component Information				
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Potassium iodide	2779 mg/kg (Rat)	LD50 > 2000 mg/kg (Rat)	Not listed	
Foxicologically Synergistic Products	No information available			
Delayed and immediate effects	as well as chronic effects from	n short and long-term exposure	<u>e_</u>	
Irritation	May cause irritation			

Sensitization		No information available				
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen			as a carcinogen.	
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Potassium iodide	7681-11-0	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
Reproductive Effect	ts	No information ava	ailable.			
Developmental Effe	cts	No information ava	ailable.			
Teratogenicity		No information ava	ailable.			
STOT - single exposision STOT - repeated exposite structure of the second stru		None known Thyroid				
Aspiration hazard		No information available				
Symptoms / effects delayed	,both acute and	nd May cause pulmonary edema				
Endocrine Disrupto	r Information	No information available				
Other Adverse Effect	Adverse Effects The toxicological properties have not been fully investigated.					

12. Ecological information

Ecotoxicity

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Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea		
Potassium iodide	-	Onchorhynchus mykiss:	-	-		
		LC50: 3200 mg/L/120h				
Persistence and Degrada	bility Persistence	is unlikely				
Bioaccumulation/ Accumulation No information available.						
Mobility	. Will likely b	be mobile in the environm	ent due to its water solubility	<i>י</i> .		
	Component log Pow					
Pc	otassium iodide		0.04			
	13. D	isposal conside	erations			
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Chemical waste generators must also consult local, regional, and						
national hazardous waste regulation						
	national naz	ardous waste regulations	s to ensure complete and act			
	14. Transport information					
DOT	DOT Not regulated					
TDG	Not regulate					
IATA	Not regulate	ed				
IMDG/IMO	Not regulate					

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification -	TSCA - EPA Regulatory

			Active-Inactive	Flags
Potassium iodide	7681-11-0	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

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
Potassium iodide	7681-11-0	Х	-	231-659-4	Х	Х	Х	Х	Х	KE-29149

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable	Not applicable					
SARA 311/312 Hazard Categorie	es See section 2 for	more information					
CWA (Clean Water Act)	Not applicable	Not applicable					
Clean Air Act	Not applicable						
OSHA - Occupational Safety and Health Administration	Not applicable	Not applicable					
CERCLA	Not applicable						
California Proposition 65	This product does	s not contain any Proposition 65 chemicals.					
U.S. State Right-to-Know Regulations	Not applicable						
U.S. Department of Transportat Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	ion N N N						
U.S. Department of Homeland Security	This product does	s not contain any DHS chemicals.					
Other International Regulations	-						
Mexico - Grade	No information av	vailable					
Authorisation/Restrictions acco	rding to EU REACH	Not applicable					
Component	CAS No	REACH (1907/2006) -REACH (1907/2006) -REACH Regulation (ECAnnex XIV - SubstancesAnnex XVII - Restrictions1907/2006) article 59 -					

		Subject to Authorization	· · · · J · · ·	Candidate List of Substances of Very High Concern (SVHC)
Potassium iodide	7681-11-0	-	-	-

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)
Potassium iodide	7681-11-0	Listed	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

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)
Potassium iodide	7681-11-0	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	14-Sep-2009 13-Oct-2023 13-Oct-2023 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