

SAFETY DATA SHEET

Creation Date 14-Sep-2009

Revision Date 29-Mar-2024

Revision Number 6

1. Identification

Product Name

Potassium iodide

Cat No. : A12704

CAS No Synonyms 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>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**: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.

<u>NFPA</u> Health 1	Flammability 0	Instability 1	Physical hazards N/A			
	6. Accidental rel	lease measures				
Personal Precautions	Ensure adequate ventilatio formation.	n. Use personal protective equ	ipment as required. Avoid dust			
Environmental Precautions	Should not be released into	o the environment.				
Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed Up containers for disposal.						
	7. Handling a	and storage				
Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clear						
Storage.	orage. Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from d sunlight. To maintain product quality. Store under an inert atmosphere. Protect from moisture. Incompatible Materials. 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.

Odor Threshold pH	No information available 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 Flammability (solid,gas)	Not applicable 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	l K	
Molecular Weight	166	

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

Sensitization		No information available				
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinoger			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.			
• •	OT - single exposure None known OT - repeated exposure Thyroid					
Aspiration hazard		No information available				
Symptoms / effects delayed	,both acute and	and May cause pulmonary edema				
Endocrine Disrupto	r Information No information available					
Other Adverse Effect	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 LC50: 3200 mg/	mykiss:	-	-
Persistence and Degradab	pility Persistence	is unlikely			
Bioaccumulation/ Accumulation No information available.					
Mobility	. Will likely	be mobile in the en	vironment	due to its water solubility	1.
	Component		log Pow		
Potassium iodide			0.04		
	13. D	isposal con	siderat	tions	
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classifi hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification			local, regional, and		
	14. Transport information				
DOT	Not regulate				
TDG	Not regulate				
IATA	Not regulate				
IMDG/IMO	Not regulate	ea			

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

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland	This product does not contain any DHS chemicals.

Security

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Not applicable

Component		REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	on Certain Dangerous	REACH Regulation (EC 1907/2006) article 59 - 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	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com	
Creation Date Revision Date Print Date Revision Summary	14-Sep-2009 29-Mar-2024 29-Mar-2024 New emergency telephone response service provider.	
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