

# SAFETY DATA SHEET

Creation Date 05-Apr-2010

**Product Name** 

Revision Date 24-Dec-2021

**Revision Number** 4

### 1. Identification Potassium lodide Solution, 10%

Cat No. :	SP242-1; SP242-4; SP242-20; SP242-500
Synonyms	No information available
Recommended Use Uses advised against	Laboratory chemicals. 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)

Specific target organ toxicity - (repeated exposure)

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 <u>Hazards not otherwise classified (HNOC)</u> None identified

### 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Water	7732-18-5	90 - 95
Potassium iodide	7681-11-0	5 - 10

	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.
Most important symptoms and effects	None reasonably foreseeable.
Notes to Physician	Treat symptomatically

### 5. Fire-fighting measures

Suitable Extinguishing Media	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	Not applicable 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**

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

#### Hazardous Combustion Products

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.

NFPA Health 2	Flammability 0	Instability 0	<b>Physical hazards</b> N/A
	6. Accidental re	elease measures	
Personal Precautions Environmental Precautions		quipment as required. Ensure ad to the environment. See Section	

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Up

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. None known.

### 8. Exposure controls / personal protection

### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	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.

### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and chemical properties

Physical State	Liquid
Appearance	Clear
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	Not applicable
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	14 mmHg
Vapor Density	0.7
Specific Gravity	1.032
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

### 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Excess heat.
Incompatible Materials	None known
Hazardous Decomposition Product	${f s}$ Thermal decomposition can lead to release of irritating gases and vapors
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

### Acute Toxicity

Product Information Dral LD50 Dermal LD50	Based on ATE data, the cla Based on ATE data, the cla	n is available for this product assification criteria are not met. AT assification criteria are not met. AT	E > 2000 mg/kg.
/apor LC50 Component Information	Based on AIE data, the cla	assification criteria are not met. AT	E > 20 mg/l.
Component	LD50 Oral	LD50 Dermal	LC50 Inhalatior
Water	-	-	-
Potassium iodide	2779 mg/kg (Rat)	LD50 > 2000 mg/kg (Rat)	Not listed
roxicologically Synergistic Products	No information available		

Irritation

May cause skin, eye, and respiratory tract irritation

#### Sensitization

No information available

Carcinogenicity

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

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico			
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed			
Potassium iodide	7681-11-0	Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects		Mutagenic effects	have occurred in e	experimental anima	lls.				
Reproductive Effects		No information available.							
Developmental Effe	cts	No information available.							
Teratogenicity		No information available.							
STOT - single exposure STOT - repeated exposure		None known None known							
Aspiration hazard		No information available							
Symptoms / effects,both acute and delayed		No information available							
Endocrine Disruptor Information		No information available							
Other Adverse Effect	cts	Tumorigenic effects have been reported in experimental animals.							

# 12. Ecological information

Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea			
Potassium iodide	-	Onchorhynchus mykiss: LC50: 3200 mg/L/120h					
Persistence and Degrada	ability Soluble in	water Persistence is unlikely	/ based on information ava	ilable.			
Bioaccumulation/ Accun	nulation No inform	No information available.					
Mobility . Will likely be mobile in the environment due to its water solubility.							
Component log Pow							
Potassium iodide 0.04							
13. Disposal considerations							
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							
	14	Transport inform	ation				
DOT	Not regula	ated					
<u>_TDG</u>	Not regula						
IATA	Not regula						
IMDG/IMO	Not regula	ated					
	15.	Regulatory inform	nation				

### United States of America Inventory

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

			Active-Inactive	Flags
Water	7732-18-5	Х	ACTIVE	-
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 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
Water	7732-18-5	Х	-	231-791-2	Х	Х		Х	Х	KE-35400
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
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Component Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Water -	-	Х	-	-

### U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

Authorisation/Restrictions according to EU REACH

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Water	7732-18-5	Listed	Not applicable	Not applicable	Not applicable
Potassium iodide	7681-11-0	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No	for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements		Basel Convention (Hazardous Waste)
Water	7732-18-5	Not applicable	Not applicable	Not applicable	Not applicable
Potassium iodide	7681-11-0	Not applicable	Not applicable	Not applicable	Not applicable

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

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	05-Apr-2010 24-Dec-2021 24-Dec-2021 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