



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 17-May-2023 Revision Number 5.05

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Potassium lodate	
Product Code	162-03951,160-03952,164-03955	
Manufacturer	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome	
	Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741	
	Fax: +81-6-6203-5964	
Supplier	FUJIFILM Wako Pure Chemical Corporation	
	1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan	
	Phone: +81-6-6203-3741	
	Fax: +81-6-6203-2029	
Emergency telephone number	+81-6-6203-3741 / +81-3-3270-8571	
Recommended uses	For research use only	

Section 2: HAZARDS IDENTIFICATION

Seek expert judgment when using for purposes other than those recommended.

GHS classification Classification of the substance or mixture **Oxidizing solids** Acute toxicity - Oral Serious eye damage/eye irritation

Category 4 Category 2B

Category 2

Pictograms

Restrictions on use



Signal word

Danger

Hazard statements

H272 - May intensify fire; oxidizer H320 - Causes eye irritation H302 - Harmful if swallowed

Precautionary statements-(Prevention)

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- Keep/Store away from clothing/ combustible materials
- Take any precaution to avoid mixing with combustibles
- Wear protective gloves/protective clothing/eye protection/face protection

Precautionary statements-(Response)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Precautionary statements-(Storage)

Not applicable

Precautionary statements-(Disposal)

Dispose of contents/container to an approved waste disposal plant

Others

Other hazards Not available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula KIO3

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Potassium iodate	99.7	214.00	(1)-440	公表	7758-05-6

Note on ISHL No.: * in the table means announced chemical substances.

Impurities and/or Additives: Not applicable

Section 4: FIRST AID MEASURES

Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eye contact

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

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Protection of first-aiders

Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Flood with water, Sand

Unsuitable extinguishing media

Powder, Foam, Carbondioxide

Specific hazards arising from the chemical product

Some may decompose explosively when heated or involved in a fire Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Special extinguishing method

No information available

Special protective actions for

fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin,

or inhaling the gas. Work from windward, and retract the people downwind.

Environmental precautions

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

Recoverly, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling

Technical measures

Flammable. Do not give shock. Avoid contact with organic substance Avoid contact with reducing agents and combustible materials. Use with local exhaust ventilation.

Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle In places other than those specified, should not be smoking or eating and drinking Should not be brought contaminated protective equipment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the handling area

Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)

Storage

Safe storage conditions

Storage conditions Store away from sunlight in well-ventilated place at room temperature (preferably cool).

Keep container tightly closed.

Safe packaging material Polyethylene

Incompatible substances Organic substance, Combustible materials, Reducing agent

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Personal protective equipment

Respiratory protection Dust mask (JIS T 8151)

Hand protection chemical protective gloves (JIS T 8116) **Eye protection** protective eyeglasses or chemical safety goggles

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

Color white

Appearance crystals - powder
Odor Odorless
Melting point/freezing point 560 °C

Boiling point, initial boiling point and boiling range no data available Flammability no data available Evaporation rate: no data available

Flammability (solid, gas): no data available

Upper/lower flammability or

explosive limits

Upper:
Lower:
no data available
pH
5.0 - 8.0 (50g/L, 25°C)

pH 5.0 - 8.0 (50g/L, 25°)
Viscosity (coefficient of viscosity) no data available

Dynamic viscosity no data available
Solubilities water : slightly fre

water: slightly freely soluble. Ethanol: practically insoluble, or insoluble.

n-Octanol/water partition coefficient:(log Pow) no data available vapour pressure no data available

Specific Gravity / Relative density 3.89

Vapour densityno data availableParticle characteristicsno data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity no data available **Chemical stability** May be altered by light.

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Organic substance, Combustible materials, Reducing agent

Hazardous decomposition products

Halides

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium iodate	1177 mg/kg (Rat)	N/A	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Potassium iodate	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
· otassiani isaats			Based on the NITE GHS classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
Potassium iodate	Based on the NITE GHS classification results.

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
Potassium iodate	Based on the NITE GHS classification results.
B 1 4 11 141 41	

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
Potassium iodate	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
Potassium iodate	Based on the NITE GHS classification results.
Carcinogenicity	
Chemical Name	Carcinogenicity source information
Potassium iodate	Based on the NITE GHS classification results.

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Potassium iodate	Based on the NITE GHS classification results.
STOT cingle expecure	

STOT-single exposure

Chemical Name	STOT -single exposure- source information
Potassium iodate	Based on the NITE GHS classification results.

STOT-repeated exposure

Potassium jodate Based on the NITE GHS classification results.	Chemical Name	STOT -repeated exposure- source information
	Potassium iodate	Based on the NITE GHS classification results.

Aspiration hazard

Chemical Name	Aspiration Hazard source information
Potassium iodate	Based on the NITE GHS classification results.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity No information available

Other data

	Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information	
ſ	Potassium iodate	Based on the NITE GHS classification	HS classification Based on the NITE GHS classification	
		results.	results.	

Persistence and degradability No information available Bioaccumulative potential No information available Mobility in soil No information available No information available Hazard to the ozone layer

Section 13: DISPOSAL CONSIDERATIONS

Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

ADR/RID

UN number

Proper shipping name: Oxidizing solid, n.o.s. (Potassium iodate)

UN classfication 5.1

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG

UN number UN1479

Oxidizing solid, n.o.s. (Potassium iodate) Proper shipping name:

UN classfication 5.1

Subsidiary hazard class

Ш Packing group

Not applicable Marine pollutant (Sea)

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

UN1479 **UN** number

Proper shipping name: Oxidizing solid, n.o.s. (Potassium iodate)

UN classfication

Subsidiary hazard class

Packing group Ш Not applicable

Environmentally Hazardous

Substance

Section 15: REGULATORY INFORMATION

International Inventories

EINECS/ELINCS Listed **TSCA** Listed

Japanese regulations

Fire Service Act Category I, iodates, dangerous grade 1

Not applicable **Poisonous and Deleterious**

Substances Control Law

Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57,

Para.1, Enforcement Order Art.18)

Notifiable Substances (Law Art.57-2, Enforcement Oder Art.18-2 Attached Table

No.9)No.606

Dangerous Substances - Oxidizing Substance (Enforcement Order Attached Table 1

Item 3)

Regulations for the carriage

and storage of dangerous

goods in ship

Civil Aeronautics Law

Oxidizing Agents - Oxidizing Agents (Ordinance Art.3, Ministry of Transportation

Ordinance Regarding Transport by Ship and Storage, Attached Table 1)

Oxidizing Agents - Oxidizing Agents (Ordinance Art. 194, MITL Nortification for Air Transportation of Explosives etc., Attached Table 1)

Pollutant Release and Transfer Not applicable

Register Law (2023.4.1-)

Not applicable **Export Trade Control Order**

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2) (~2024.3.31)	Pollutant Release and Transfer Register Law (2023.4.1-)
Potassium iodate 7758-05-6 (99.7)	-	Applicable	-

Section 16: OTHER INFORMATION

Key literature references and

sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN)

http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations

RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS

Dictionary of Synthetic Oraganic Chemistry, SSOCJ, Koudansha Scientific Co.Ltd.

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

The following contents were revised. Prodauct and company Identification. Exposure **Record of SDS revisions**

controls/personal protection. Regulatory information.

Disclaimer

This SDS is according to JIS Z 7253: 2019. 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, 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.

GHS Classification is according to JIS Z 7252:2019. *JIS: Japanese Industrial Standards

End of Safety Data Sheet