



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 08-Feb-2023 Revision Number 8.02

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Diiodine Pentaoxide
Product Code	093-00452

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 Recommended uses and

restrictions on use

+81-6-6203-3741 / +81-3-3270-8571 For research use only

Section 2: HAZARDS IDENTIFICATION

GHS classification Classification of the substance or mixture Oxidizing solids Skin corrosion/irritation Serious eye damage/eye irritation

Category 2 Category 2 Category 2A







Signal word

Danger

Hazard statements

H272 - May intensify fire; oxidizer

H315 - Causes skin irritation

H319 - Causes serious eye irritation

Precautionary statements-(Prevention)

- · Wash face, hands and any exposed skin thoroughly after handling
- · 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 ON SKIN: Wash with plenty of soap and water
- If skin irritation occurs: Get medical advice/attention

· Take off contaminated clothing and wash before reuse

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 1205

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Diiodine Pentoxide	95.0	333.81	(1)-745	*	12029-98-0

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

No information available

Specific hazards arising from the chemical product

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 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

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. 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 Keep container protect from light, store

in well-ventilated place at room temperature (preferably cool). Keep container tightly

closed. Packed with an inert gas.

Safe packaging material Glass

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 Hand protectionDust mask

Protection gloves

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

ColorWhite - slightly yellowAppearancecrystalline powder - powder

Odor Odorless
Melting point/freezing point no data a

Melting point/freezing pointno data availableBoiling point, initial boiling point and boiling rangeno data availableFlammabilityno data availableEvaporation rate:no data available

no data available Flammability (solid, gas):

Upper/lower flammability or

explosive limits

no data available Upper: no data available Lower: no data available Flash point **Auto-ignition temperature:** no data available no data available **Decomposition temperature:** рΗ Strongly acidic (aq.) Viscosity (coefficient of viscosity) no data available

Dynamic viscosity no data available

Solubilities water: freely soluble. Ethanol: slightly soluble.

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

Specific Gravity / Relative density 5.08

Vapour density no data available **Particle characteristics** no 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 no data available

no data available Skin irritation/corrosion Serious eye damage/ irritation no data available Respiratory or skin sensitization no data available no data available Reproductive cell mutagenicity Carcinogenicity no data available

no data available Reproductive toxicity STOT-single exposure no data available STOT-repeated exposure no data available **Aspiration hazard** no data available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity No information available

Other data no data available

Persistence and degradability No information available Bioaccumulative potential No information available

Mobility in soilNo information availableHazard to the ozone layerNo information available

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 UN1479

Proper shipping name: Oxidizing solid, n.o.s. (Diiodine Pentoxide)

UN classfication 5.1

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG

UN number UN1479

Proper shipping name: Oxidizing solid, n.o.s. (Diiodine Pentoxide)

UN classfication 5.1

Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA

UN number UN1479

Proper shipping name: Oxidizing solid, n.o.s. (Diiodine Pentoxide)

UN classfication 5.1

Subsidiary hazard class

Packing group

Environmentally Hazardous Not applicable

Substance

Section 15: REGULATORY INFORMATION

International Inventories

TSCA Listed Listed

Japanese regulations

Fire Service Act Category I, oxides of iodine, dangerous grade 1

Poisonous and Deleterious Not applicable

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

Regulations for the carriage and storage of dangerous

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

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

goods in ship

Civil Aeronautics Law 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 (~2023.3.31)

Pollutant Release and Transfer

Register Law (2023/4/1~)

Not applicable

Export Trade Control Order Not applicable

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 (~2023.3.31)
Diiodine Pentoxide 12029-98-0 (95.0)	-	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.

etc

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 Z7252(2019). *JIS: Japanese Industrial Standards

End of Safety Data Sheet