



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 04-Apr-2022

Revision Number 2.02

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Zinc Bromide
Product Code	267-00252,261-00255

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

Category 3

Category 2

Phone: +81-6-6203-3741 Fax: +81-6-6203-2029

Emergency telephone number Recommended uses and

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

restrictions on use

# **Section 2: HAZARDS IDENTIFICATION**

GHS classification
Classification of the substance or mixture

Acute toxicity - Oral
Skin corrosion/irritation
Specific target organ toxicity (single exposure)

get organ toxicity (single exposure) Category 3

Category 3 Respiratory irritation

#### **Pictograms**



Signal word

Danger

# **Hazard statements**

H315 - Causes skin irritation

H301 - Toxic if swallowed

H335 - May cause respiratory irritation

## **Precautionary statements-(Prevention)**

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Wear protective gloves/protective clothing/eye protection/face protection
- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area

# Precautionary statements-(Response)

- 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
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

- Call a POISON CENTER or doctor/physician if you feel unwell
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Rinse mouth

#### Precautionary statements-(Storage)

- Store locked up
- · Store in a well-ventilated place. Keep container tightly closed

#### 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 ZnBr2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Zinc bromide	95.0	225.19	(1)-118	公表	7699-45-8

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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

#### 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**

Avoid contact with strong oxidizing agents. 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.

#### Storage

Safe storage conditions

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

Keep container tightly closed. Store locked up.

Safe packaging material Glass

Incompatible substances Strong oxidizing agents

#### 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 protection
Dust 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

**Color** white

Appearance crystals - crystalline powder

Odor no data available

Melting point/freezing point 394 °C Boiling point, initial boiling point and boiling range 650 °C

**Flammability Evaporation rate:**no data available
no data available

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Flammability (solid, gas): no data available

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 no data available Viscosity (coefficient of viscosity) no data available Dynamic viscosity no data available

Solubilities water , pale hydrochloric acid : soluble .

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

Specific Gravity / Relative density 4.201

Vapour densityno data availableParticle characteristicsno data available

# **Section 10: STABILITY AND REACTIVITY**

#### Stability

Reactivity no data available

**Chemical stability** Stable under recommended storage conditions.

**Hazardous reactions** 

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials
Strong oxidizing agents

Hazardous decomposition products

Halides, Metal oxides

# **Section 11: TOXICOLOGICAL INFORMATION**

Acute toxicity no data available

Skin irritation/corrosionno data availableSerious eye damage/ irritationno data availableRespiratory or skin sensitizationno data available

Reproductive cell mutagenicity

7ing bromide	Chemical Name	germ cell mutagencity source information
Zinc bromide	Zinc bromide	

Carcinogenicity no data available

Reproductive toxicityno data availableSTOT-single exposureno data availableSTOT-repeated exposureno data availableAspiration hazardno data available

# **Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** No information available

Other data no data available

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Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

No information available
No information available
No 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 UN3288

**Proper shipping name:** Toxic solid, inorganic, n.o.s. (Zinc bromide)

UN classfication 6.

Subsidiary hazard class

Packing group III

Marine pollutant Not applicable

**IMDG** 

UN number UN3288

**Proper shipping name:** Toxic solid, inorganic, n.o.s. (Zinc bromide)

UN classfication 6.

Subsidiary hazard class

Packing group III

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 UN3288

Proper shipping name: Toxic solid, inorganic, n.o.s. (Zinc bromide)

UN classfication 6.1

Subsidiary hazard class

Packing group

Environmentally Hazardous Not applicable

Substance

# **Section 15: REGULATORY INFORMATION**

**International Inventories** 

TSCA Listed

Japanese regulations

Fire Service Act Not applicable

Poisonous and Deleterious Deleterious Substances 3rd. Grade

**Substances Control Law** 

Industrial Safety and Health Act Not applicable

Regulations for the carriage Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance

and storage of dangerous Regarding Transport by Ship and Storage, Attached Table 1)

goods in ship

Civil Aeronautics Law Toxic and Infectious Substances (Ordinance Art.194, MITL Nortification for Air

Transportation of Explosives etc., Attached Table 1)

Marine Pollution Prevention Marine pollutants (P and PP substances)

Law

Pollutant Release and Transfer Class 1

Register Law (~2023.3.31)

Class 1 - No. 1
Pollutant Release and Transfer Class 1

Register Law (2023/4/1~)

Class 1 - No. 1

Water Pollution Control Act Specified substances(Law Art.2 Para.4, Enforcement Order Art.3-3)

**Export Trade Control Order** Not applicable

Air Pollution Control Law Hazardous Air Pollutants

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)
Zinc bromide 7699-45-8 ( 95.0 )	Applicable	-	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**