



# SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 25-Mar-2024 Revision Number 2.04

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

| Product Name                                   | Potassium Disulfite   |
|--|---|
| Product Code                                   | 161-03345   |
| Supplier                                       | FUJIFILM Wako Pure Chemical Corporation<br>1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan |
|  | Phone: +81-6-6203-3741<br>Fax: +81-6-6203-2029  |
| Emergency telephone number<br>Recommended uses | +81-6-6203-3741 / +81-3-3270-8571<br>For research use only  |
| Restrictions on use                            | Seek expert judgment when using for purposes other than those recommended.                        |

### Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Acute toxicity - Oral Serious eye damage/eye irritation Respiratory sensitization Skin sensitization Specific target organ toxicity (single exposure) Category 3 Respiratory irritation Specific target organ toxicity (repeated exposure) Acute aquatic toxicity Chronic aquatic toxicity

Category 4 Category 2B Category 1 Category 1 Category 3

Category 1 Category 3 Category 3

**Pictograms** 



Signal word

Danger

### Hazard statements

- H320 Causes eye irritation
- H302 Harmful if swallowed
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H335 May cause respiratory irritation
- H372 Causes damage to organs through prolonged or repeated exposure
- H317 May cause an allergic skin reaction
- H402 Harmful to aquatic life
- H412 Harmful to aquatic life with long lasting effects

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

- · Wash face, hands and any exposed skin thoroughly after handling
- · Do not eat, drink or smoke when using this product
- In case of inadequate ventilation wear respiratory protection
- · Contaminated work clothing should not be allowed out of the workplace

- Do not breathe dust/fume/gas/mist/vapors/spray
- Use only outdoors or in a well-ventilated area
- Avoid release to the environment

#### **Precautionary statements-(Response)**

Get medical advice/attention if you feel unwell

• 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 or rash occurs: Get medical advice/attention
- Wash contaminated clothing before reuse
- · If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Not available

Rinse mouth

### Precautionary statements-(Storage)

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

#### Precautionary statements-(Disposal)

• Dispose of contents/container to an approved waste disposal plant

### Others

Other hazards

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula K2S2O5

|                          |        |     |     | CAS RN     |
|--------------------------|--------|-----|-----|------------|
| Potassium disulfite 95.0 | 222.32 | N/A | N/A | 16731-55-8 |

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

# 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**

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

| Store away from sunlight in well-ventilated place at room temperature (preferably cool).<br>Keep container tightly closed. |
|--|
| Glass<br>No information available  |
|  |

# 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.

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

# Eve protection Skin and body protection

protective eyeglasses or chemical safety goggles (JIS T 8147) Long-sleeved work clothes

### **General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to them.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### Form

| Color  |
|--|
| Appearance   |
| Odor   |
| Melting point/freezing point                           |
| Boiling point, initial boiling point and boiling range |
| Flammability   |
| Evaporation rate:                                      |
| Flammability (solid, gas):                             |
| Upper/lower flammability or explosive limits           |
| Upper:   |
| Lower:   |
| Flash point  |
| Auto-ignition temperature:                             |
| Decomposition temperature:                             |
| pH   |
| Viscosity (coefficient of viscosity)                   |
| Dynamic viscosity                                      |
| Solubilities   |
| n-Octanol/water partition coefficient:(log Pow)        |
| Vapour pressure  |

apour pressur Specific Gravity / Relative density Vapour density **Particle characteristics** 

white crystalline powder Sulfur dioxide odor 190 °C no data available 190 °C acidic no data available no data available water : freely soluble . Ethanol : practically insoluble,or insoluble . no data available no data available 2.3 no data available no data available

# Section 10: STABILITY AND REACTIVITY

### Stability

no data available Reactivity Chemical stability Stable under recommended storage conditions. Hazardous reactions None under normal processing **Conditions to avoid** Extremes of temperature and direct sunlight Incompatible materials No information available Hazardous decomposition products Sulfur oxides (SOx)

# Section 11: TOXICOLOGICAL INFORMATION

### Acute toxicity

| Chemical Name       | Oral LD50        | Dermal LD50 | Inhalation LC50 |
|---------------------|------------------|-------------|-----------------|
| Potassium disulfite | 1800 mg/kg (Rat) | N/A         | N/A             |

#### Skin irritation/corrosion Serious eye damage/ irritation Respiratory or skin sensitization Reproductive cell mutagenicity Carcinogenicity

no data available no data available no data available no data available

| Chemical Name                          | NTP    | IARC        | ACGIH | JSOH (Japan) |
|--|--------|-------------|-------|--------------|
| Potassium disulfite                    | N/A    | Group 3     | N/A   | N/A          |
| 16731-55-8                             |        |             |       |              |
| Reproductive toxicity                  | no dat | a available |       |              |
| STOT-single exposure no data available |        |             |       |              |
| STOT-repeated exposure                 | no dat | a available |       |              |
| Aspiration hazard                      | no dat | a available |       |              |

# Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

| Chemical Name       | Algae/aquatic plants | Fish                   | Crustacea |
|---------------------|----------------------|------------------------|-----------|
| Potassium disulfite | N/A                  | LC50:Leuciscus idus    | N/A       |
|                     |                      | 220 - 460 mg/L 96 h    |           |
|                     |                      | LC50:Brachydanio rerio |           |
|                     |                      | 460 - 1000 mg/L 96 h   |           |

Other data

no data available

Persistence and degradability Bioaccumulative potential Mobility in soil Hazard to the ozone layer No information available 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<br>UN number<br>Proper shipping name:<br>UN classfication<br>Subsidiary hazard class<br>Packing group  | Not regulated<br>-   |
|--|--|
| Marine pollutant   | Not applicable   |
| IMDG<br>UN number<br>Proper shipping name:<br>UN classfication<br>Subsidiary hazard class<br>Packing group<br>Marine pollutant (Sea)<br>Transport in bulk according to | Not regulated<br>-<br>Not applicable<br>No information available |

| the IBC Code              |                |
|---------------------------|----------------|
| ΙΑΤΑ                      | Not regulated  |
| UN number                 | -              |
| Proper shipping name:     |                |
| UN classfication          |                |
| Subsidiary hazard class   |                |
| Packing group             |                |
| Environmentally Hazardous | Not applicable |
| Substance                 |                |

# Section 15: REGULATORY INFORMATION

| <u>Japanese regulations</u><br>Fire Service Act<br>Poisonous and Deleterious | Not applicable<br>Not applicable   |
|--|--|
| Substances Control Law   |  |
| Industrial Safety and Health Act   | t Not applicable   |
| Industrial Safety and Health Act (<br>2024~)                                 | [2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1) |
| Regulations for the carriage<br>and storage of dangerous<br>goods in ship    | Not applicable   |
| Civil Aeronautics Law  | Not applicable   |
| Pollutant Release and Transfer<br>Register Law<br>(2023.4.1-)                | Not applicable   |
| Export Trade Control Order   | Not applicable   |

# **Section 16: OTHER INFORMATION**

| Key literature references and sources for data etc. | NITE: National Institute of Technology and Evaluation (JAPAN)<br>http://www.safe.nite.go.jp/japan/db.html<br>IATA dangerous Goods Regulations<br>RTECS:Registry of Toxic Effects of Chemical Substances<br>Japan Industrial Safety and Health Association GHS Model SDS<br>Dictionary of Synthetic Oraganic Chemistry, SSOCJ, Koudansha Scientific Co.Ltd.<br>Chemical Dictionary, Kyouritsu Publishing Co., Ltd.<br>etc |
|---|--|
| Descender (ODO serviciones                          | The following contents were revised. Descriptory information   |

# **Record of SDS revisions** The following contents were revised. 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