

## SAFETY DATA SHEET

According to JIS Z 7253:2019  
**Revision Date** 16-Aug-2021  
 Version 2.02

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

|                     |   |
|---------------------|---|
| <b>Product name</b> | Ractopamine Hydrochloride Standard (mixture of isomers) |
| <b>Product code</b> | 182-01971   |

|   |   |
|---|---|
| <b>Manufacturer</b>                             | FUJIFILM Wako Pure Chemical Corporation<br>1-2 Doshomachi 3-Chome<br>Chuo-ku, Osaka 540-8605, Japan<br>Phone: +81-6-6203-3741<br>Fax: +81-6-6203-5964 |
| <b>Supplier</b>                                 | FUJIFILM Wako Pure Chemical Corporation<br>1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan<br>Phone: +81-6-6203-3741<br>Fax: +81-6-6203-2029   |
| <b>Emergency telephone number</b>               | +81-6-6203-3741 / +81-3-3270-8571   |
| <b>Recommended uses and restrictions on use</b> | For research use only   |

## Section 2: HAZARDS IDENTIFICATION

**GHS classification****Classification of the substance or mixture**

Acute toxicity - Oral

Category 4

Acute toxicity - Inhalation (Dusts/Mists)

Category 4

Serious eye damage/eye irritation

Category 2A

Skin sensitization

Category 1

Short-term (acute) hazardous to the aquatic environment

Category 3

**Pictograms****Signal word**

Warning

**Hazard statements**

- H319 - Causes serious eye irritation
- H302 - Harmful if swallowed
- H332 - Harmful if inhaled
- H317 - May cause an allergic skin reaction
- H402 - Harmful to aquatic life

**Precautionary statements-(Prevention)**

- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Use only outdoors or in a well-ventilated area
- Wear protective gloves/protective clothing/eye protection/face protection
- Contaminated work clothing should not be allowed out of the workplace
- Avoid release to the environment

**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 or rash occurs: Get medical advice/attention
- Wash contaminated clothing 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: 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** C18H23NO3·HCl

| Chemical Name   | Weight-% | Molecular weight | ENCS | ISHL No. | CAS RN     |
|---|----------|------------------|------|----------|------------|
| Ractopamine Hydrochloride Standard (mixture of isomers) | 98.0     | 337.84           | N/A  | N/A      | 90274-24-1 |

**Impurities and/or Additives :** Not applicable

**Substances Remarks:** This product is composed of isomer mixture.

### 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**

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, 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 contaminant and methods and materials for cleaning up**

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

**Recovery, 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**

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

**Storage****Safe storage conditions**

**Storage conditions** Keep container protect from light tightly closed. Store in a cool (2-10 °C) place.

**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 hand- and 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

**Hand protection** 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

|   |  |
|---|--|
| <b>Form</b>   |  |
| <b>Color</b>  | White - pale yellowish gray or grayish brown                                 |
| <b>Appearance</b>   | crystalline powder - powder  |
| <b>Odor</b>   | No data available  |
| <b>Melting point/freezing point</b>                           | 170 °C (dec.)  |
| <b>Boiling point, initial boiling point and boiling range</b> | No data available  |
| <b>Flammability</b>   | No data available  |
| <b>Evaporation rate:</b>                                      | No data available  |
| <b>Flammability (solid, gas):</b>                             | No data available  |
| <b>Upper/lower flammability or explosive limits</b>           |  |
| <b>Upper :</b>  | No data available  |
| <b>Lower :</b>  | No data available  |
| <b>Flash point</b>  | No data available  |
| <b>Auto-ignition temperature:</b>                             | No data available  |
| <b>Decomposition temperature:</b>                             | No data available  |
| <b>pH</b>   | No data available  |
| <b>Viscosity (coefficient of viscosity)</b>                   | No data available  |
| <b>Dynamic viscosity</b>                                      | No data available  |
| <b>Solubilities</b>   | water and Ethanol : soluble . acetone : practically insoluble,or insoluble . |
| <b>n-Octanol/water partition coefficient:(log Pow)</b>        | No data available  |
| <b>Vapour pressure</b>  | No data available  |
| <b>Specific Gravity / Relative density</b>                    | No data available  |
| <b>Vapour density</b>   | No data available  |
| <b>Particle characteristics</b>                               | No data available  |

## Section 10: STABILITY AND REACTIVITY

### Stability

|   |  |
|---|--|
| <b>Reactivity</b>                       | No data available  |
| <b>Chemical stability</b>               | May be altered by light.   |
| <b>Hazardous reactions</b>              | None under normal processing   |
| <b>Conditions to avoid</b>              | Extremes of temperature and direct sunlight  |
| <b>Incompatible materials</b>           | Strong oxidizing agents  |
| <b>Hazardous decomposition products</b> | Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Nitrogen oxides (NO <sub>x</sub> ), Halides |

## Section 11: TOXICOLOGICAL INFORMATION

### Acute toxicity

| Chemical Name   | Oral LD50         | Dermal LD50 | Inhalation LC50 |
|---|-------------------|-------------|-----------------|
| Ractopamine Hydrochloride Standard (mixture of isomers) | 474 mg/kg ( Rat ) | N/A         | N/A             |

|  |                   |
|--|-------------------|
| <b>Skin irritation/corrosion</b>         | No data available |
| <b>Serious eye damage/ irritation</b>    | No data available |
| <b>Respiratory or skin sensitization</b> | No data available |
| <b>Reproductive cell mutagenicity</b>    | No data available |
| <b>Carcinogenicity</b>                   | No data available |
| <b>Reproductive toxicity</b>             | No data available |
| <b>STOT-single exposure</b>              | No data available |
| <b>STOT-repeated exposure</b>            | 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 soil No information available

Hazard to the ozone layer 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 Not regulated

UN number -

Proper shipping name:

UN classification

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG Not regulated

UN number -

Proper shipping name:

UN classification

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 Not regulated

UN number -

Proper shipping name:

UN classification

Subsidiary hazard class

Packing group

Environmentally Hazardous Not applicable

Substance

## Section 15: REGULATORY INFORMATION

### International Inventories

EINECS/ELINCS Listed

TSCA -

### Japanese regulations

Fire Service Act Not applicable

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|   |                |
|---|----------------|
| <b>Poisonous and Deleterious Substances Control Law</b>   | Not applicable |
| <b>Industrial Safety and Health Act Regulations for the carriage and storage of dangerous goods in ship</b> | Not applicable |
| <b>Civil Aeronautics Law</b>  | Not applicable |
| <b>Pollutant Release and Transfer Register Law</b>  | Not applicable |
| <b>Export Trade Control Order</b>   | Not 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 Organic 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**