Section 1: PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name</th>
<th>Furaltadone Hydrochloride Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code</td>
<td>062-05441</td>
</tr>
</tbody>
</table>

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 and restrictions on use  
For research use only

Section 2: HAZARDS IDENTIFICATION

GHS classification  
Classification of the substance or mixture  
Acute toxicity - Oral Category 4

Pictograms

Signal word          Warning

Hazard statements  
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

Precautionary statements-(Response)  
- 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
**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 retrace 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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form
Color: yellow
Appearance: crystalline powder - powder

Odor: No data available
Melting point/freezing point: No data available
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: No data available
Upper: No data available
Lower: No data available
Flash point: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
pH: No data available
Viscosity (coefficient of viscosity): No data available
Dynamic viscosity: No data available
Solubilities
- water: soluble . Ethanol , acetone : practically insoluble,or insoluble .
- n-Octanol/water partition coefficient:(log Pow): No data available

Vapour pressure: No data available
Specific Gravity / Relative density: No data available
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**
Strong oxidizing agents

**Hazardous decomposition products**
Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Hydrogen chloride (HCl) gas

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**Section 11: TOXICOLOGICAL INFORMATION**

**Acute toxicity**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Furaltadon Monohydrochloride</td>
<td>1g/kg(Rat)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Skin irritation/corrosion: No data available

Serious eye damage/irritation: No data available

Respiratory or skin sensitization: No data available

Reproductive cell mutagenicity: No data available

Carcinogenicity: No data available

Reproductive toxicity: No data available

STOT-single exposure: No data available

STOT-repeated exposure: No data available

Aspiration hazard: No data available

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**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

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**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.

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**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
UN number
Proper shipping name:
UN classification
Subsidiary hazard class
Packing group
Marine pollutant (Sea)
Not applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No information available

IATA
UN number
Proper shipping name:
UN classification
Subsidiary hazard class
Packing group
Environmentally Hazardous Substance
Not applicable

Section 15: REGULATORY INFORMATION

International Inventories
EINECS/ELINCS
Listed
TSCA
- 

Japanese regulations
Fire Service Act
Poisonous and Deleterious Substances Control Law
Industrial Safety and Health Act
Regulations for the carriage and storage of dangerous goods in ship
Civil Aeronautics Law
Pollutant Release and Transfer Register Law
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)
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 , SSOJC, Koudanhsa Scientific Co.Ltd.
Chemical Dictionary, Youritsu 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

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