# SAFETY DATA SHEET

According to JIS Z 7253:2012  
Revision Date  04-May-2018
Version 3

---

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name</th>
<th>Cefpirome Sulfate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code</td>
<td>030-22701,038-22702</td>
</tr>
<tr>
<td>CAS No</td>
<td>98753-19-6</td>
</tr>
<tr>
<td>Formula</td>
<td>C22H22N6O5S2·H2SO4</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 purposes |
| Announcement of company name change | Company name has changed since April 1, 2018. Former name was “Wako Pure Chemical Industries, Ltd.” |

---

## Section 2: HAZARDS IDENTIFICATION

**GHS classification**

Classification of the substance or mixture  
Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

**Pictograms**  
none

**Signal word**

Not applicable

**Hazard statements**

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

**Precautionary statements-(Prevention)**

• Not applicable

**Precautionary statements-(Response)**

• Not applicable

**Precautionary statements-(Storage)**

• Not applicable

**Precautionary statements-(Disposal)**

• Not applicable

**Others**

**Other hazards**

Not available

---

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Single Substance or Mixture**

Substance
Formula: C22H22N6O5S2·H2SO4

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight-%</th>
<th>Molecular weight</th>
<th>ENCS</th>
<th>ISHL No.</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cefpirome Sulfate</td>
<td>90.0</td>
<td>612.66</td>
<td>N/A</td>
<td>N/A</td>
<td>98753-19-6</td>
</tr>
</tbody>
</table>

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
- Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

Unsuitable extinguishing media
- No information available

Special extinguishing method
- No information available

Specific hazards arising from the chemical product
- Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Protection of 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.

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

Form
Color White - pale brown
Appearance crystals - powder
Odor No data available
pH 1.6-2.6
Melting point/freezing point No data available
Boiling point, initial boiling point and boiling range No data available
Flash point No data available
Evaporation rate: No data available
Flammability (solid, gas): No data available
Upper/lower flammability or explosive limits
Upper : No data available
Lower : No data available
Vapour pressure No data available
Vapour density No data available
Specific Gravity / Relative density No data available
Solubilities water : soluble
n-Octanol/water partition coefficient: (log Pow) No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity (coefficient of viscosity) No data available
Dynamic viscosity No data available

Section 10: STABILITY AND REACTIVITY

Stability
Stability May be altered by light. Hygroscopic.
Reactivity No data available
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), Sulfur oxides (SOx)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity No data available
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

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

<table>
<thead>
<tr>
<th>ADR/RID</th>
<th>UN number</th>
<th>Proper shipping name:</th>
<th>UN classification</th>
<th>Subsidiary hazard class</th>
<th>Packing group</th>
<th>Marine pollutant</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not regulated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IMDG</th>
<th>UN number</th>
<th>Proper shipping name:</th>
<th>UN classification</th>
<th>Subsidiary hazard class</th>
<th>Packing group</th>
<th>Marine pollutant (Sea)</th>
<th>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not regulated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Not applicable</td>
<td>No information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IATA</th>
<th>UN number</th>
<th>Proper shipping name:</th>
<th>UN classification</th>
<th>Subsidiary hazard class</th>
<th>Packing group</th>
<th>Environmentally Hazardous Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not regulated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

Section 15: REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>International Inventories</th>
<th>EINECS/ELINCS</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Japanese regulations</th>
<th>Fire Service Act</th>
<th>Poisonous and Deleterious Substances Control Law</th>
<th>Industrial Safety and Health Act Regulations for the carriage and storage of dangerous goods in ship</th>
<th>Civil Aeronautics Law</th>
<th>Pollutant Release and Transfer Register Law</th>
<th>Export Trade Control Order</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

Section 16: OTHER INFORMATION

<table>
<thead>
<tr>
<th>Key literature references and sources for data etc.</th>
<th>NITE: National Institute of Technology and Evaluation (JAPAN)</th>
<th><a href="http://www.safe.nite.go.jp/japan/db.html">http://www.safe.nite.go.jp/japan/db.html</a></th>
<th>IATA dangerous Goods Regulations</th>
<th>RTECS:Registry of Toxic Effects of Chemical Substances</th>
</tr>
</thead>
</table>
Disclaimer
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(2014). *JIS: Japanese Industrial Standards

Product information
You might get a product which indicates a former company name, during the period of transition.

End of Safety Data Sheet