Section 1: PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name</th>
<th>N-Fluoropyridinium Trifluoromethanesulfonate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code</td>
<td>068-06521,066-06522</td>
</tr>
<tr>
<td>CAS No</td>
<td>107263-95-6</td>
</tr>
<tr>
<td>Formula</td>
<td>C5H5FN·CF3O3S</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>FUJIFILM Wako Pure Chemical Corporation</td>
</tr>
<tr>
<td></td>
<td>1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan</td>
</tr>
<tr>
<td></td>
<td>Phone: +81-6-6203-3741 Fax: +81-6-6203-5964</td>
</tr>
<tr>
<td>Supplier</td>
<td>FUJIFILM Wako Pure Chemical Corporation</td>
</tr>
<tr>
<td></td>
<td>1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan</td>
</tr>
<tr>
<td></td>
<td>Phone: +81-6-6203-3741 Fax: +81-6-6203-2029</td>
</tr>
<tr>
<td>Emergency telephone number</td>
<td>+81-6-6203-3741 / +81-3-3270-8571</td>
</tr>
<tr>
<td>Recommended uses and</td>
<td>For research purposes</td>
</tr>
<tr>
<td>restrictions on use</td>
<td></td>
</tr>
<tr>
<td>Announcement of company name</td>
<td>Company name has changed since April 1, 2018. Former name was &quot;Wako Pure Chemical Industries, Ltd.&quot;</td>
</tr>
<tr>
<td>change</td>
<td></td>
</tr>
</tbody>
</table>

Section 2: HAZARDS IDENTIFICATION

GHS classification
Classification of the substance or mixture
Skin corrosion/irritation Category 1 C
Serious eye damage/eye irritation Category 1

Pictograms

Signal word
Danger

Hazard statements
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage

Precautionary statements-(Prevention)
• Do not breathe dust/fume/gas/mist/vapors/spray
• Wash face, hands and any exposed skin thoroughly after handling
• Wear protective gloves/protective clothing/eye protection/face protection

Precautionary statements-(Response)
• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
rinsing.
- Immediately call a POISON CENTER or doctor/physician
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Wash contaminated clothing before reuse.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary statements-(Storage)
- Store locked up.

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 C5H5FN·CF3O3S

<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>N-Fluoropyridinium trifluoromethanesulfonate</td>
<td>95.0</td>
<td>247.17</td>
<td>N/A</td>
<td>8-(1)-2297</td>
<td>107263-95-6</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. Packed with an inert gas.

Safe packaging material
Polyethylene

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 - slightly yellow brown
  Appearance  crystals - crystalline powder
  Odor  No data available
  pH  No data available
  Melting point/freezing point  183 °C
  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 density  No data available
  Specific Gravity / Relative density  No data available
  Solubilities  acetone : soluble . Ethanol : practically insoluble, or insoluble .
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.
  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 monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulfur oxides (SOx), Halides

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
Dispersion should be in accordance with applicable regional, national and local laws and regulations.

Contaminated container and contaminated packaging
Dispersion should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

ADR/RID
UN number  UN1759
Proper shipping name: Corrosive solid, n.o.s. (N-Fluoropyridinium trifluoromethanesulphonate)
UN classification  8
Subsidiary hazard class
Packing group  III
Marine pollutant  Not applicable

IMDG
UN number  UN1759
Proper shipping name: Corrosive solid, n.o.s. (N-Fluoropyridinium trifluoromethanesulphonate)
UN classification  8
Subsidiary hazard class
Packing group  III
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  UN1759
Proper shipping name: Corrosive solid, n.o.s. (N-Fluoropyridinium trifluoromethanesulphonate)
UN classification  8
Subsidiary hazard class
Packing group  III
Environmentally Hazardous Substance  Not applicable

Section 15: REGULATORY INFORMATION

International Inventories
EINECS/ELINCS  -
TSCA  -
**Japanese regulations**

<table>
<thead>
<tr>
<th>Act</th>
<th>Applicability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Service Act</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Poisonous and Deleterious Substances</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Control Law</td>
<td></td>
</tr>
<tr>
<td>Industrial Safety and Health Act</td>
<td></td>
</tr>
<tr>
<td>Regulations for the carriage and storage of dangerous goods in ship</td>
<td>Corrosive Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)</td>
</tr>
<tr>
<td>Civil Aeronautics Law</td>
<td></td>
</tr>
<tr>
<td>Corrosive Substances</td>
<td></td>
</tr>
<tr>
<td>Pollutant Release and Transfer Register Law</td>
<td></td>
</tr>
<tr>
<td>Water Pollution Control Act</td>
<td>Harmful Substances (Law Art.2, Enforcement Order Art.2, Ordinance Designating Wastewater Standards Art.1)</td>
</tr>
<tr>
<td>Export Trade Control Order</td>
<td></td>
</tr>
<tr>
<td>Soil Contamination Control Law</td>
<td>Designated Hazardous Substances</td>
</tr>
</tbody>
</table>

**Section 16: OTHER INFORMATION**

**Key literature references and sources for data etc.**

- NITE: National Institute of Technology and Evaluation (JAPAN)
- IATA dangerous Goods Regulations
- RTECS: Registry of Toxic Effects of Chemical Substances
- Japan Industrial Safety and Health Association GHS Model SDS
- Chemical Dictionary, Kyoritsu Publishing Co., Ltd.
- etc

**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