Section 1: PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name</th>
<th>Casein, from Milk</th>
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</thead>
<tbody>
<tr>
<td>Product code</td>
<td>034-01508, 030-01505</td>
</tr>
<tr>
<td>CAS No</td>
<td>9000-71-9</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>FUJIFILM Wako Pure Chemical Corporation</td>
</tr>
<tr>
<td></td>
<td>1-2 Doshomachi 3-Chome</td>
</tr>
<tr>
<td></td>
<td>Chuo-ku, Osaka 540-8605, Japan</td>
</tr>
<tr>
<td></td>
<td>Phone: +81-6-6203-3741</td>
</tr>
<tr>
<td></td>
<td>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</td>
</tr>
<tr>
<td></td>
<td>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 restrictions on use</td>
<td>For research purposes</td>
</tr>
<tr>
<td>Announcement of company name change</td>
<td>Company name has changed since April 1, 2018. Former name was &quot;Wako Pure Chemical Industries, Ltd.&quot;</td>
</tr>
</tbody>
</table>

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
Signal word
none
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
### 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 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
Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Storage
Safe storage conditions
Store away from sunlight in well-ventilated place at room temperature (preferably cool).

Safe packaging material
Polypropylene

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

Appearance
small granules or powder

Odor
No data available

pH
4.0 (Immersion in water)

Melting point/freezing point
280 °C (dec.)

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
sodium hydroxide (aq.): soluble, water, Ethanol and Diethyl ether: 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

Stable under recommended storage conditions.

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)

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>
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<td>UN classification</td>
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<td>Subsidiary hazard class</td>
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<tr>
<td>Packing group</td>
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<tr>
<td>Marine pollutant</td>
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<td>Packing group</td>
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<tr>
<td>Marine pollutant (Sea)</td>
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<tr>
<td>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</td>
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<table>
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Section 15: REGULATORY INFORMATION

<table>
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<tr>
<th>International Inventories</th>
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<tr>
<td>EINECS/ELINCS</td>
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<td>TSCA</td>
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<table>
<thead>
<tr>
<th>Japanese regulations</th>
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<tr>
<td>Fire Service Act</td>
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<tr>
<td>Poisonous and Deleterious Substances Control Law</td>
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<tr>
<td>Industrial Safety and Health Act</td>
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<tr>
<td>Regulations for the carriage and storage of dangerous goods in ship</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Civil Aeronautics Law</td>
<td>Not applicable</td>
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<tr>
<td>Pollutant Release and Transfer Register Law</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Export Trade Control Order</td>
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Section 16: OTHER INFORMATION

<table>
<thead>
<tr>
<th>Key literature references and sources for data etc.</th>
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<tbody>
<tr>
<td>IATA dangerous Goods Regulations</td>
<td>RTECS:Registry of Toxic Effects of Chemical Substances</td>
</tr>
<tr>
<td>Japan Industrial Safety and Health Association GHS Model SDS</td>
<td></td>
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</tbody>
</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