Section 1: PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name</th>
<th>p-Methylacetophenone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code</td>
<td>136-01773,130-01776</td>
</tr>
<tr>
<td>CAS RN</td>
<td>122-00-9</td>
</tr>
<tr>
<td>Formula</td>
<td>CH₃C₆H₄COCH₃</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</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>
</tbody>
</table>

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Flammable liquids</th>
<th>Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Oral</td>
<td>Category 4</td>
</tr>
</tbody>
</table>

Pictograms

Signal word

Warning

Hazard statements

H227 - Combustible liquid
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
- Keep away from heat/sparks/open flames/hot surfaces. — No smoking
- Wear protective gloves/protective clothing/eye protection/face protection

Precautionary statements-(Response)

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth.
- In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary statements-(Storage)

- Store in a well-ventilated place. Keep cool

Precautionary statements-(Disposal)
• Dispose of contents/container to an approved waste disposal plant

Others
Other hazards Not available

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Single Substance or Mixture</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formula</td>
<td>CH₃C₆H₄COCH₃</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight-%</th>
<th>Molecular weight</th>
<th>ENCS</th>
<th>ISHL No.</th>
<th>CAS RN</th>
</tr>
</thead>
<tbody>
<tr>
<td>p-Methylacetophenone</td>
<td>95.0</td>
<td>134.18</td>
<td>(3)-1239</td>
<td>公表</td>
<td>122-00-9</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 contaminant and methods and materials for cleaning up
Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

#### 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**
Highly flammable. Avoid contact with high temperature objects, spark, and 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**
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). 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). Keep container tightly closed.

**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**
Protective mask

**Hand protection**
Protective 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form</strong></td>
<td>Color: Colorless - slightly yellow, Turbidity: clear, Appearance: liquid</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Characteristic odor</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Melting point/freezing point</strong></td>
<td>28 °C</td>
</tr>
<tr>
<td><strong>Boiling point, initial boiling point and boiling range</strong></td>
<td>226 °C</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>96 °C</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas):</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Upper</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Lower</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>4.6</td>
</tr>
</tbody>
</table>
### Specific Gravity / Relative density
1.002 - 1.009 g/mL

### Solubilities
Ethanol, acetone: freely soluble. Water: practically insoluble, or insoluble.

### n-Octanol/water partition coefficient (log Pow)
2.10

### 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, Heat, flames and sparks, static electricity, sparks

**Incompatible materials**
- Strong oxidizing agents

**Hazardous decomposition products**
- Carbon monoxide (CO), Carbon dioxide (CO2)

---

**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>p-Methylacetophenone</td>
<td>1400 mg/kg (Rat)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Skin irritation/corrosion**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Skin corrosion irritation source information</th>
</tr>
</thead>
<tbody>
<tr>
<td>p-Methylacetophenone</td>
<td></td>
</tr>
</tbody>
</table>

**Serious eye damage/irritation**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Serious eye damage source information</th>
</tr>
</thead>
<tbody>
<tr>
<td>p-Methylacetophenone</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
</tbody>
</table>

**Respiratory or skin sensitization**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Respiratory, Skin sensitization source information</th>
</tr>
</thead>
<tbody>
<tr>
<td>p-Methylacetophenone</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
</tbody>
</table>

**Reproductive cell mutagenicity**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Mutagenic source information</th>
</tr>
</thead>
<tbody>
<tr>
<td>p-Methylacetophenone</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
</tbody>
</table>

**Carcinogenicity**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Carcinogenicity source information</th>
</tr>
</thead>
<tbody>
<tr>
<td>p-Methylacetophenone</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
</tbody>
</table>

**Reproductive toxicity**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Reproductive toxicity source information</th>
</tr>
</thead>
<tbody>
<tr>
<td>p-Methylacetophenone</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
</tbody>
</table>

**STOT - single exposure**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>STOT - single exposure - source information</th>
</tr>
</thead>
<tbody>
<tr>
<td>p-Methylacetophenone</td>
<td></td>
</tr>
</tbody>
</table>
Section 12: ECOLOGICAL INFORMATION

Ecotoxicity
No information available

Other data

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Aquatic toxicity -Acute- source information</th>
<th>Aquatic toxicity -Chronic- source information</th>
</tr>
</thead>
<tbody>
<tr>
<td>p-Methylacetophenone</td>
<td>Based on the NITE GHS classification results.</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
</tbody>
</table>

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 Annex II of MARPOL 73/78 and the IBC Code
No information available

IATA
Not regulated
UN number
-
Proper shipping name:
-
UN classification
-
Subsidiary hazard class
-
Packing group
-
Environmentally Hazardous Substance
Not applicable
Section 15: REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>EINECS/ELINCS</th>
<th>Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Listed</td>
</tr>
</tbody>
</table>

Japanese regulations

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Service Act</td>
<td>Category IV, Class III petroleum, dangerous grade 3</td>
</tr>
<tr>
<td>Poisonous and Deleterious Substances Control Law</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Industrial Safety and Health Act</td>
<td>Not applicable</td>
</tr>
<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>
</tr>
<tr>
<td>Pollutant Release and Transfer Register Law</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Export Trade Control Order</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

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
- 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

End of Safety Data Sheet