

## SAFETY DATA SHEET

According to JIS Z 7253:2012  
**Revision Date** 02-Apr-2018  
 Version 2

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

|   |   |
|---|---|
| <b>Product name</b>                             | p-Acetophenetidine  |
| <b>Product code</b>                             | 019-00412,013-00415   |
| <b>CAS No</b>                                   | 62-44-2   |
| <b>Formula</b>                                  | C <sub>2</sub> H <sub>5</sub> OC <sub>6</sub> H <sub>4</sub> NHCOCH <sub>3</sub>  |
| <b>Manufacturer</b>                             | FUJIFILM Wako Pure Chemical Corporation<br>1-2 Doshomachi 3-Chome<br>Chuo-ku, Osaka 540-8605, Japan<br>Phone: +81-6-6203-3741<br>Fax: +81-6-6203-5964 |
| <b>Supplier</b>                                 | FUJIFILM Wako Pure Chemical Corporation<br>1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan<br>Phone: +81-6-6203-3741<br>Fax: +81-6-6203-2029   |
| <b>Emergency telephone number</b>               | +81-6-6203-3741 / +81-3-3270-8571   |
| <b>Recommended uses and restrictions on use</b> | For research purposes   |
| <b>Announcement of company name change</b>      | 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

Acute toxicity - Oral

Category 4

Germ cell mutagenicity

Category 2

Carcinogenicity

Category 1A

Reproductive Toxicity

(additional)

Specific target organ toxicity (single exposure)

Category 1

Category 1 central nervous system

Specific target organ toxicity (repeated exposure)

Category 1

Category 1 kidneys, blood

## Pictograms



## Signal word

Danger

## Hazard statements

H302 - Harmful if swallowed

H341 - Suspected of causing genetic defects

H350 - May cause cancer

H362 - May cause harm to breast-fed children  
 H370 - Causes damage to the following organs: central nervous system  
 H372 - Causes damage to the following organs through prolonged or repeated exposure: kidneys, blood

**Precautionary statements-(Prevention)**

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required.
- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not breathe dust/fume/gas/mist/vapors/spray

**Precautionary statements-(Response)**

- IF exposed: Call a POISON CENTER or doctor/physician
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth.

**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** C<sub>2</sub>H<sub>5</sub>OC<sub>6</sub>H<sub>4</sub>NHCOCH<sub>3</sub>

| Chemical Name      | Weight-% | Molecular weight | ENCS    | ISHL No. | CAS No. |
|--------------------|----------|------------------|---------|----------|---------|
| p-Acetophenetidine | 98.0     | 179.22           | (3)-697 | N/A      | 62-44-2 |

**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 (CO<sub>2</sub>), 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**

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray

**Storage**

**Safe storage conditions**

**Storage conditions**

Keep container protect from light, store in well-ventilated place at room temperature (preferably cool). Keep container tightly closed.

**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**

|                                       |  |
|---------------------------------------|--|
| <b>Respiratory protection</b>         | Dust mask  |
| <b>Hand protection</b>                | Protection gloves  |
| <b>Eye protection</b>                 | protective eyeglasses or chemical safety goggles                       |
| <b>Skin and body protection</b>       | Long-sleeved work clothes, protective boots                            |
| <b>General hygiene considerations</b> | Handle in accordance with good industrial hygiene and safety practice. |

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

|   |   |
|---|---|
| <b>Form</b>   |   |
| <b>Color</b>  | white   |
| <b>Appearance</b>   | crystals - crystalline powder   |
| <b>Odor</b>   | No data available   |
| <b>pH</b>   | neutral (aq.)   |
| <b>Melting point/freezing point</b>                           | 133-138 °C  |
| <b>Boiling point, initial boiling point and boiling range</b> | No data available   |
| <b>Flash point</b>  | No data available   |
| <b>Evaporation rate:</b>                                      | No data available   |
| <b>Flammability (solid, gas):</b>                             | No data available   |
| <b>Upper/lower flammability or explosive limits</b>           |   |
| <b>Upper :</b>  | No data available   |
| <b>Lower :</b>  | No data available   |
| <b>Vapour pressure</b>  | No data available   |
| <b>Vapour density</b>   | No data available   |
| <b>Specific Gravity / Relative density</b>                    | No data available   |
| <b>Solubilities</b>   | Ethanol : soluble . Diethyl ether : slightly soluble . water : very slightly soluble. |
| <b>n-Octanol/water partition coefficient:(log Pow)</b>        | No data available   |
| <b>Auto-ignition temperature:</b>                             | No data available   |
| <b>Decomposition temperature:</b>                             | No data available   |
| <b>Viscosity (coefficient of viscosity)</b>                   | No data available   |
| <b>Dynamic viscosity</b>                                      | No data available   |

## Section 10: STABILITY AND REACTIVITY

### Stability

|   |   |
|---|---|
| <b>Stability</b>                        | May be altered by light.  |
| <b>Reactivity</b>                       | No data available   |
| <b>Hazardous reactions</b>              | None under normal processing  |
| <b>Conditions to avoid</b>              | Extremes of temperature and direct sunlight   |
| <b>Incompatible materials</b>           | Strong oxidizing agents   |
| <b>Hazardous decomposition products</b> | Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Nitrogen oxides (NO <sub>x</sub> ) |

## Section 11: TOXICOLOGICAL INFORMATION

### Acute toxicity

| Chemical Name      | Oral LD50          | Dermal LD50 | Inhalation LC50 |
|--------------------|--------------------|-------------|-----------------|
| p-Acetophenetidine | 1650 mg/kg ( Rat ) | N/A         | N/A             |

| Chemical Name | Acute toxicity -oral- source | Acute toxicity -dermal- source | Acute toxicity -inhalation gas- |
|---------------|------------------------------|--------------------------------|---------------------------------|
|               |                              |                                |                                 |

|                    | information   | information                                   | source information                            |
|--------------------|---|---|---|
| p-Acetophenetidine | LD50(ori, rat):1650 mg/kg(Risk Assessment of the Ministry of the Environment書Vol. 3 (2004)), LD50(ori, rat):約4000 mg/kg(IARC 24 (1980)) | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. |

| Chemical Name      | Acute toxicity -inhalation vapor- source information | Acute toxicity -inhalation dust- source information | Acute toxicity -inhalation mist- source information |
|--------------------|--|---|---|
| p-Acetophenetidine | Based on the NITE GHS classification results.        | Based on the NITE GHS classification results.       | LC50(ihl, mouse):33.9 mg/L(環境省リスク評価 第3巻 (2004))     |

**Skin irritation/corrosion**

| Chemical Name      | Skin corrosion irritation source information  |
|--------------------|---|
| p-Acetophenetidine | Based on the NITE GHS classification results. |

**Serious eye damage/ irritation**

| Chemical Name      | Serious eye damage source information         |
|--------------------|---|
| p-Acetophenetidine | Based on the NITE GHS classification results. |

**Respiratory or skin sensitization**

| Chemical Name      | Respiratory, Skin sensitization source information |
|--------------------|--|
| p-Acetophenetidine | Based on the NITE GHS classification results.      |

**Reproductive cell mutagenicity**

| Chemical Name      | Mutagenic source information                  |
|--------------------|---|
| p-Acetophenetidine | Based on the NITE GHS classification results. |

**Carcinogenicity**

| Chemical Name      | Carcinogenicity source information            |
|--------------------|---|
| p-Acetophenetidine | Based on the NITE GHS classification results. |

| Chemical Name                 | NTP                                | IARC    | ACGIH | JSOH (Japan) |
|-------------------------------|------------------------------------|---------|-------|--------------|
| p-Acetophenetidine<br>62-44-2 | Known<br>Reasonably<br>Anticipated | Group 1 |       |              |

**Reproductive toxicity**

| Chemical Name      | Reproductive toxicity source information      |
|--------------------|---|
| p-Acetophenetidine | Based on the NITE GHS classification results. |

**STOT-single exposure**

| Chemical Name      | STOT -single exposure- source information     |
|--------------------|---|
| p-Acetophenetidine | Based on the NITE GHS classification results. |

**STOT-repeated exposure**

| Chemical Name      | STOT -repeated exposure- source information   |
|--------------------|---|
| p-Acetophenetidine | Based on the NITE GHS classification results. |

**Aspiration hazard**

| Chemical Name      | Aspiration Hazard source information          |
|--------------------|---|
| p-Acetophenetidine | Based on the NITE GHS classification results. |

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity** No information available

**Other data**

| Chemical Name      | Aquatic toxicity -Acute- source information   | Aquatic toxicity -Chronic- source information |
|--------------------|---|---|
| p-Acetophenetidine | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. |

**Persistence and degradability** No information available

|                                       |                          |
|---------------------------------------|--------------------------|
| Bioaccumulative potential             | No information available |
| Mobility in soil                      | No information available |
| Hazard to the ozone layer<br>Mobility | 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

|  |                          |
|--|--------------------------|
| <b>ADR/RID</b>   | Not regulated            |
| UN number  | -                        |
| Proper shipping name:  |                          |
| UN classification  |                          |
| Subsidiary hazard class  |                          |
| Packing group  |                          |
| Marine pollutant   | Not applicable           |
| <b>IMDG</b>  | Not regulated            |
| UN number  | -                        |
| Proper shipping name:  |                          |
| UN classification  |                          |
| Subsidiary hazard class  |                          |
| Packing group  |                          |
| Marine pollutant (Sea)   | Not applicable           |
| Transport in bulk according to<br>Annex II of MARPOL 73/78 and<br>the IBC Code | No information available |
| <b>IATA</b>  | Not regulated            |
| UN number  | -                        |
| Proper shipping name:  |                          |
| UN classification  |                          |
| Subsidiary hazard class  |                          |
| Packing group  |                          |
| Environmentally Hazardous<br>Substance   | Not applicable           |

### Section 15: REGULATORY INFORMATION

#### International Inventories

|               |        |
|---------------|--------|
| EINECS/ELINCS | Listed |
| TSCA          | Listed |

#### Japanese regulations

|   |                |
|---|----------------|
| Fire Service Act  | Not applicable |
| Poisonous and Deleterious<br>Substances Control Law                       | Not applicable |
| Industrial Safety and Health Act  | Not applicable |
| Regulations for the carriage and<br>storage of dangerous goods in<br>ship | Not applicable |
| Civil Aeronautics Law   | Not applicable |

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**Pollutant Release and Transfer Register Law** Not applicable  
**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 Organic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.  
Chemical Dictionary, Kyouritsu 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**