# SAFETY DATA SHEET

According to JIS Z 7253:2012
**Revision Date** 22-Feb-2019
Version 1.02

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

| | |
|---|---|
| **Product name** | Sodium Picrate Monohydrate |
| **Product code** | 195-02942,199-02945 |
| CAS No | 3324-58-1 |

**Formula** (NO2)3C6H2ONa·H2O

**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**

| | |
|---|---|
| **Explosives** | Division 1.1 |
| **Self-Heating Substances and Mixtures** | Category 1 |
| **Self-reactive substances and mixtures** | Type B |
| **Acute toxicity - Oral** | Category 3 |

**Pictograms**

**Signal word** Danger

**Hazard statements**

H201 - Explosive; mass explosion hazard
H241 - Heating may cause a fire or explosion
H251 - Self-heating: may catch fire
H301 - Toxic 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
- Keep wetted with water
- Ground/bond container and receiving equipment
- Do not subject to grinding/shock/friction
- Wear protective gloves/protective clothing/eye protection/face protection
- Keep/Store away from clothing/combustible materials
- Keep only in original container
- Keep cool. Protect from sunlight

**Precautionary statements-(Response)**

- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Rinse mouth.
- Explosion risk in case of fire
- DO NOT fight fire when fire reaches explosives
- In case of fire: Use CO2, dry chemical, or foam for extinction
- Evacuate area
- Fight fire remotely due to the risk of explosion

**Precautionary statements-(Storage)**

- Store locked up.
- Store in accordance with local regulations
- Store in a well-ventilated place. Keep cool
- Store away from other materials
- Maintain air gap between stacks/pallets

**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** (NO2)3C6H2ONa·H2O

| Chemical Name | Weight-% | Molecular weight | ENCS | ISHL No. | CAS No. |
|---|---|---|---|---|---|
| Sodium Picrate | 90.0 | 251.08 (Anhydrite) | N/A | 4-(10)-345,4-(10)-401 | 3324-58-1 |

**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.
**Recoverly, 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. Do not give shock. 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**
Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity) Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

### Storage

**Safe storage conditions**

| | |
|---|---|
| **Storage conditions** | Store away from sunlight in well-ventilated place at room temperature (preferably cool). Keep container tightly closed. Store locked up. |
| **Safe packaging material** | Polyethylene, Polypropylene |
| **Incompatible substances** | No information available |

## 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, protective boots |

**General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Form** | |
| **Color** | White - brownish yellow |
| **Appearance** | crystalline powder - powder or mass |
| **Odor** | No data available |
| **pH** | No data available |
| **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 : free soluble . Ethanol : 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** | Risk of explosion by shock, friction, fire or other sources of ignition |
| **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, spark, Shock

**Incompatible materials**

No information available

**Hazardous decomposition products**

Carbon monooxide (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

**ADR/RID**

| | |
|---|---|
| **UN number** | UN0154 |
| **Proper shipping name:** | Trinitrophenol |
| **UN classfication** | 1 |
| **Subsidiary hazard class** | |
| **Packing group** | |
| **Marine pollutant** | Not applicable |

**IMDG**

| | |
|---|---|
| **UN number** | UN0154 |
| **Proper shipping name:** | Trinitrophenol |
| **UN classfication** | 1.1D |
| **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** Forbidden

| | |
|---|---|
| **UN number** | UN0154 |
| **Proper shipping name:** | Trinitrophenol |
| **UN classfication** | 1.1D |
| **Subsidiary hazard class** | |
| **Packing group** | |
| **Environmentally Hazardous Substance** | Not applicable |

## Section 15: REGULATORY INFORMATION

**International Inventories**

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

**Japanese regulations**

| | |
|---|---|
| **Fire Service Act** | Category V, nitro compounds, dangerous grade 1 |
| **Poisonous and Deleterious Substances Control Law** | Deleterious Substances 3rd. Grade |
| **Industrial Safety and Health Act** | Dangerous Substances - Explosive Substance (Enforcement Order Attached Table 1 Item 1) |
| **Regulations for the carriage and storage of dangerous goods in ship** | Explosives |
| **Civil Aeronautics Law** | Forbidden (Ordinance Art.194) |
| **Pollutant Release and Transfer Register Law** | 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 Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.
Chemical Dictionary, Kyouritsu Publishing Co., Ltd.
etc

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GHS Classification is acoording 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**