Section 1: PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name</th>
<th>Indium(III) Nitrate Trihydrate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code</td>
<td>091-04571</td>
</tr>
<tr>
<td>CAS No</td>
<td>13465-14-0</td>
</tr>
<tr>
<td>Formula</td>
<td>In(NO3)3·3H2O</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>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</td>
</tr>
<tr>
<td>Supplier</td>
<td>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</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 “Wako Pure Chemical Industries, Ltd.”</td>
</tr>
</tbody>
</table>

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Oxidizing solids Category 3
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Carcinogenicity Category 2
Specific target organ toxicity (repeated exposure) lung Category 1

Pictograms

![Hazard pictogram]

Signal word Danger

Hazard statements

- H272 - May intensify fire; oxidizer
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H351 - Suspected of causing cancer
H372 - Causes damage to the following organs through prolonged or repeated exposure: lung

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 breathe dust/fume/gas/mist/vapors/spray
• Do not eat, drink or smoke when using this product
• Keep away from heat/sparks/open flames/hot surfaces. — No smoking
• Keep/Store away from clothing/combustible materials
• Take any precaution to avoid mixing with combustibles

Precautionary statements-(Response)
• IF exposed or concerned: Get medical advice/attention
• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
• If eye irritation persists: Get medical advice/attention.
• IF ON SKIN: Wash with plenty of soap and water
• If skin irritation occurs: Get medical advice/attention
• Take off contaminated clothing and wash before reuse

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 In(NO3)3·3H2O

<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>
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</thead>
<tbody>
<tr>
<td>Indium(III) Nitrate Hydrate</td>
<td>97.0</td>
<td>354.88</td>
<td>N/A</td>
<td>N/A</td>
<td>13465-14-0</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
- Flood with water

Unsuitable extinguishing media
- Carbondioxide, Powder, Foam

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 retrack 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.

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
- Avoid contact with organic substance 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
- Store away from sunlight in well-ventilated place at room temperature (preferably cool).
- Keep container tightly closed.

Safe packaging material
- Glass

Incompatible substances
- Reducing agent, Organic substance, Combustible materials

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 - nearly white

Appearance
crystals powder or mass

Odor
No data available

pH
2.0 - 3.0 (50g/1,25°C)

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 soluble . Ethanol , acetone : 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
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
Reducing agent, Organic substance, Combustible materials

Hazardous decomposition products
Nitrogen oxides (NOx), Metal oxides

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 UN1477
Proper shipping name: Nitrates, inorganic, n.o.s.
UN classification 5.1
Subsidiary hazard class
Packing group II
Marine pollutant Not applicable

IMDG
UN number UN1477
Proper shipping name: Nitrates, inorganic, n.o.s.
UN classification 5.1
Subsidiary hazard class
Packing group II
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 UN1477
Proper shipping name: Nitrates, inorganic, n.o.s.
Section 15: REGULATORY INFORMATION

International Inventories

EINECS/ELINCS  
TSCA

Japanese regulations

Fire Service Act  
Poisonous and Deleterious Substances Control Law  
Industrial Safety and Health Act

Not applicable  
Not applicable  
Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18)

Not applicable  
Not applicable  
Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Attached Table No.9)No.58

Not applicable  
Not applicable  
Group 2 Specified Chemical Substance

Regulations for the carriage and storage of dangerous goods in ship

Civil Aeronautics Law

Oxidizing Agents - Oxidizing Agents (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)

Oxidizing Agents - Oxidizing Agents (Ordinance Art.194, MITL Nortification for Air Transportation of Explosives etc., Attached Table 1)

Pollutant Release and Transfer Register Law

Class 1 - No.

Water Pollution Control Act

Export Trade Control Order

Air Pollution Control Law

44  
Harmful Substances (Law Art.2, Enforcement Order Art.2, Ordinance Designating Wastewater Standards Art.1)

Not applicable  
Hazardous Air Pollutants

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

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