SAFETY DATA SHEET

According to JIS Z 7253:2012
Revision Date 05-Jul-2018
Version 1.01

Section 1: PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name</th>
<th>LabAssayTM Ammonia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code</td>
<td>295-78901</td>
</tr>
<tr>
<td>CAS No</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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
Acute toxicity - Oral Category 4
Skin corrosion/irritation Category 1
Serious eye damage/eye irritation Category 1
Germ cell mutagenicity Category 1B
Reproductive Toxicity Category 1B
Specific target organ toxicity (single exposure) Category 2, Category 3
Category 2 respiratory system, cardiovascular system, kidneys, nervous system
Category 3 Respiratory tract irritation
Specific target organ toxicity (repeated exposure) Category 2
Category 2 central nervous system, thymus, spleen, kidneys, blood system, digestive system, liver, cardiovascular system, respiratory system
Aquatic environment (acute hazard) Category 3
Aquatic environment (long-term hazard) Category 3

Pictograms

Signal word
Danger
Hazard statements
- H314 - Causes severe skin burns and eye damage
- H318 - Causes serious eye damage
- H302 - Harmful if swallowed
- H340 - May cause genetic defects
- H360 - May damage fertility or the unborn child
- H335 - May cause respiratory irritation
- H402 - Harmful to aquatic life
- H412 - Harmful to aquatic life with long lasting effects
- H371 - May cause damage to the following organs: respiratory system, cardiovascular system, kidneys, nervous system
- H373 - May cause damage to the following organs through prolonged or repeated exposure: central nervous system, thymus, spleen, kidneys, blood system, digestive system, liver, cardiovascular system, respiratory system

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
- Use only outdoors or in a well-ventilated area
- Avoid release to the environment

Precautionary statements-(Response)
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or doctor/physician
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Wash contaminated clothing before reuse.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or doctor/physician if you feel unwell.
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth.
- Do NOT induce vomiting.

Precautionary statements-(Storage)
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed

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 Kit (Set of mixtures)

<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>
</tr>
</thead>
<tbody>
<tr>
<td>Deproteinizing Reagent</td>
<td>-</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A-29-7891</td>
</tr>
<tr>
<td>Chromogen Reagent A</td>
<td>-</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A-29-7892</td>
</tr>
<tr>
<td>Chromogen Reagent B</td>
<td>-</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A-29-7893</td>
</tr>
<tr>
<td>Chromogen Reagent C</td>
<td>-</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A-29-7894</td>
</tr>
<tr>
<td>Ammonia Standard Solution</td>
<td>-</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A-29-7895</td>
</tr>
<tr>
<td>Dilute Solution for Standard</td>
<td>-</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A-29-7896</td>
</tr>
</tbody>
</table>

Impurities and/or Additives: Not applicable
- Potassium Hydroxide <5%, Phenol <5%, Sulfuric Acid <2%, Sodium pentacyanonitrosylferrate(II)
Substances Remarks:
The composition considered to be hazardous are listed in the above. The remaining ingredients are not hazardous substances, or exist at below reportable level.

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
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.

**Storage**

**Safe storage conditions**

Storage conditions: Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Store locked up.

Safe packaging material: Polyethylene, Glass

Incompatible substances: Strong oxidizing agents

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**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**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>JSOH (Japan)</th>
<th>ISHL (Japan)</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium tungstate(VI) dihydrate 10213-10-2</td>
<td>N/A</td>
<td>N/A</td>
<td>STEL: 3 mg/m² W TWA: 1 mg/m³ W</td>
</tr>
<tr>
<td>Potassium Hydroxide 1310-58-3</td>
<td>Maximum ; 2mg/m³</td>
<td>N/A</td>
<td>Ceiling: 2 mg/m³</td>
</tr>
<tr>
<td>Phenol 108-95-2</td>
<td>TWA: 5 ppm OEL TWA: 19 mg/m³ OEL Skin</td>
<td>N/A</td>
<td>TWA: 5 ppm Skin</td>
</tr>
<tr>
<td>Sulfuric Acid 7664-93-9</td>
<td>1mg/m³</td>
<td>N/A</td>
<td>TWA 0.2mg/m³</td>
</tr>
<tr>
<td>Sodium pentacyanonitrosylferrate(III) dihydrate 13755-38-9</td>
<td>N/A</td>
<td>N/A</td>
<td>TWA: 1 mg/m³ Fe</td>
</tr>
</tbody>
</table>

**Personal protective equipment**

- **Respiratory protection**: Protective mask
- **Hand protection**: Impermeable 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.

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**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Form**

- **Appearance**: Kit (Set of mixtures)
- **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: No data available
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: May be altered by light.
- 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), Sulfur oxides (SOx), Metal oxides

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>Sodium pentacyanonitrosylferrate(III) dihydrate</td>
<td>20mg/kg (Rat)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Acute toxicity -oral- source information</th>
<th>Acute toxicity -dermal- source information</th>
<th>Acute toxicity -inhalation gas-source information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Hydroxide</td>
<td>LD50 (orl, rat): 284mg/kg (Statistics calculated value)</td>
<td>Based on the NITE GHS classification results.</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Phenol</td>
<td>LD50 (orl, rat): 414mg/kg (Risk Assessment of the Ministry of the Environment (2002)), LD50 (orl, rat): 512mg/kg (EHC 161 (1994)), LD50 (orl, rat): 400mg/kg (EHC 161 (1994))</td>
<td>LD50 (skn, rat): 670mg/kg (EHC 161 (1994)), LD50 (skn, rabbit): 850mg/kg and 1,400mg/kg (EHC 161 (1994))</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>LD50 (orl, rat): 2140mg/kg (SID, 2001).</td>
<td>Based on the NITE GHS classification results.</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Sodium pentacyanonitrosylferrate(III) dihydrate</td>
<td>LD50 (orl, rat): 99mg/kg (anhydrate) (RTECS 2010: Original literature Arzneimittel-Forschung. Drug Research: 24, 308, 1974)</td>
<td>Based on the NITE GHS classification results.</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Acute toxicity - inhalation- vapor- source information</td>
<td>Acute toxicity - inhalation dust- source information</td>
<td>Acute toxicity - inhalation mist- source information</td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>-------------------------------------------------------</td>
<td>-----------------------------------------------------</td>
<td>-----------------------------------------------------</td>
</tr>
<tr>
<td>Potassium Hydroxide</td>
<td>Based on the NITE GHS classification results.</td>
<td>Based on the NITE GHS classification results.</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Phenol</td>
<td>Based on the NITE GHS classification results.</td>
<td>Based on the NITE GHS classification results.</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>Based on the NITE GHS classification results.</td>
<td>LC50 (ihl, rat): 0.375mg/L/4h,</td>
<td>LC50 (ihl, rat): 0.375mg/L/4h:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50 (ihl, rat): 347ppm/h: (0.347mg/L/4h) (SIDS, 2001).</td>
<td>LC50 (ihl, rat): 347ppm/h (4 hours equivalent:</td>
</tr>
<tr>
<td>Sodium pentacyanonitrosylferrate(III) dihydrate</td>
<td>Based on the NITE GHS classification results.</td>
<td>Based on the NITE GHS classification results.</td>
<td>0.347mg/L) (SIDS, 2001).</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>Potassium Hydroxide</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Phenol</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Sodium pentacyanonitrosylferrate(III) dihydrate</td>
<td>Based on the NITE GHS classification results.</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>Potassium Hydroxide</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Phenol</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Sodium pentacyanonitrosylferrate(III) dihydrate</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>Potassium Hydroxide</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Phenol</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Sodium pentacyanonitrosylferrate(III) dihydrate</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>Potassium Hydroxide</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Phenol</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Sodium pentacyanonitrosylferrate(III) dihydrate</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>Potassium Hydroxide</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Sodium pentacyanonitrosylferrate(III) dihydrate</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>Potassium Hydroxide</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Phenol</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Sodium pentacyanonitrosylferrate(III) dihydrate</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>
</table>

---

**Phenol**

<table>
<thead>
<tr>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>JSOH (Japan)</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-95-2</td>
<td>Group 3</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Sulfuric Acid**

<table>
<thead>
<tr>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>JSOH (Japan)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7666-93-9</td>
<td>Group 1</td>
<td>A2</td>
<td>-</td>
</tr>
</tbody>
</table>

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**Revision Date 05-Jul-2018**

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**W01W0129-7890 JGHEEN LabAssayTM Ammonia**
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>STOT-repeated exposure</th>
<th>Aspiration hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Hydroxide</td>
<td>Based on the NITE GHS classification results.</td>
<td>Death of pneumonia due to aspiration. (ACGIH (2001)).</td>
</tr>
<tr>
<td>Phenol</td>
<td>Based on the NITE GHS classification results.</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>Based on the NITE GHS classification results.</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Sodium pentacyanonitrosylferrate(III) dihydrate</td>
<td>Based on the NITE GHS classification results.</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
</tbody>
</table>

### Section 12: ECOLOGICAL INFORMATION

#### Ecotoxicity

#### 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>Potassium Hydroxide</td>
<td>Based on the NITE GHS classification results.</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Phenol</td>
<td>Based on the NITE GHS classification results.</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>LC50 (Lepomis macrochirus): 16-28mg/L 96h (SIDS, 2003).</td>
<td>Based on the NITE GHS classification results.</td>
</tr>
<tr>
<td>Sodium pentacyanonitrosylferrate(III) dihydrate</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
- **UN number**: UN1760
- **Proper shipping name**: Corrosive liquid, n.o.s. (Deproteinizing Reagent)
- **UN classification**: 8
- **Subsidiary hazard class**
Section 15: REGULATORY INFORMATION

International Inventories
EINECS/ELINCS Listed
TSCA Listed

Japanese regulations
Fire Service Act Not applicable
Poisonous and Deleterious Poisonous Substances 2nd. Grade
Substances Control Law
Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18)
Group 3 Specified Chemical Substance, (Ordinance on Prevention of Hazards Due to Specified Chemical Substances Art.2 Para.1, Item 6)
Notifiable Substances (Law Art.57-2, Enforcement Oder Art.18-2 Attached Table No.9)No.316,337,474

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc
Priority Assessment Chemical Substances (Law Article 2, Para.5)

Regulations for the carriage and storage of dangerous goods in ship
Corrosive Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)

Civil Aeronautics Law
Corrosive Substances (Ordinance Art.194, MITL Nortification for Air Transportation of Explosives etc., Attached Table 1)

Pollutant Release and Transfer Register Law Class 1 - No.
349

Water Pollution Control Act
Harmful Substances (Law Art.2, Enforcement Order Art.2, Ordinance Designating Wastewater Standards Art.1) Specified substances(Law Art.2 Para.4, Enforcement Order Art.3-3)

Export Trade Control Order Not applicable

Section 16: OTHER INFORMATION

Key literature references and NITE: National Institute of Technology and Evaluation (JAPAN)
sources for data etc.

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, 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