

# 0.05mol/L(N/10) Mercury(II) nitrate solution

Hayashi Pure Chemical Ind.,Ltd.

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SDS code: F7-10

Version: 06

# Safety Data Sheet

### 1. Chemical product and company identification

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|---|-------------|--|
| Product name  | :           | 0.05mol/L(N/10) Mercury(II) nitrate solution   |
| SDS code  | :           | F7-10  |
| Company/undertaking<br>identification<br>HAYASHI PURE CHEMICAL<br>Address : 3-2-12 Uchihirand<br>Telephone : 06-6910-7305<br>E-mail : shiyaku_kikaku@h<br>URL : https://www.hpc-j.co. | oma<br>pc-j | chi, Chuo-ku, Osaka, Osaka, Japan  |
| Emergency number  | :           | 06-6910-7305   |
| Recommended use   | :           | For research and experimental use only.  |
| Restrictions on use   | :           | Do not use on a human body or for animal medicines, foods, household products, cosmetics, etc. |

## 2. Hazards identification

#### **GHS** classification

| Physical hazards | Explosives<br>Flammable gases<br>Aerosol<br>Oxidizing gases<br>Gases under pressure<br>Flammable liquids<br>Flammable solids<br>Self-reactive substances and<br>mixtures<br>Pyrophoric liquids | classification not possible<br>No classification<br>classification not possible<br>No classification<br>No classification<br>classification not possible<br>No classification<br>classification not possible |
|------------------|--|--|
|                  | Pyrophoric solids  | No classification  |
|                  | Self-heating substances and mixtures   | classification not possible  |
|                  | Substances and mixtures which in contact with water emit flammable gases   | classification not possible  |
|                  | Oxidizing liquids  | classification not possible  |
|                  | Oxidizing solids   | No classification  |
|                  | Organic peroxides  | classification not possible  |
|                  | Corrosive to metals  | Category 1   |
|                  | Desensitized explosives  | classification not possible  |
| Health hazards   | Acute toxicity (oral)  | Category 4   |
|                  | Acute toxicity (dermal)  | classification not possible  |
|                  | Acute toxicity (inhalation:gas)  | No classification  |
|                  | Acute toxicity (inhalation:vapors)   | Category 4   |
|                  | Acute toxicity (inhalation:dust/mist)  | classification not possible  |
|                  | Skin corrosion/irritation  | Category 1   |
|                  | Serious eye damage/eye irritation  | Category 1   |
|                  | Respiratory sensitization  | classification not possible  |
|                  | Skin sensitization   | Category 1   |
|                  | Germ cell mutagenicity   | Category 2   |
|                  | Carcinogenicity  | classification not possible  |
|                  | Reproductive toxicity  | classification not possible  |
|                  | Specific target organ toxicity (single exposure)   | Category 2 (kidneys)   |

|                                  | Specific target organ toxicity<br>(repeated exposure)<br>Aspiration hazard |  | Category 2 (central nervous system, kidneys)   |
|----------------------------------|--|--|--|
|                                  |  |  | classification not possible  |
| Environmental<br>hazards         | Hazardous to the aquatic<br>environment, short-term (acute)                |  | Category 2   |
|                                  | Hazardous to th  |  | Category 3   |
|                                  | Hazardous to th  | ne ozone layer   | classification not possible  |
| Hazard<br>pictograms<br>(GHS JP) |  | !> <   |  |
|                                  | GHS05  | GHS07 GI   | HS08   |
| Signal word (GHS JP              | ) :  | : Danger   |  |
| Hazard statements (C             | GHS JP) :  | Harmful if swallo<br>Causes severe s<br>May cause an all<br>Suspected of cau<br>May cause dama<br>May cause dama<br>prolonged or rep<br>Toxic to aquatic   | e to metals (H290)<br>wed or if inhaled (H302+H332)<br>kin burns and eye damage (H314)<br>lergic skin reaction (H317)<br>using genetic defects (H341)<br>age to organs (kidneys) (H371)<br>age to organs (central nervous system, kidneys) through<br>eated exposure (H373)<br>life (H401)<br>ic life with long lasting effects (H412)   |
| Precautionary statem             | ents (GHS JP)  |  |  |
| Prevention                       |  | Do not handle ur<br>(P202)<br>Keep only in orig<br>Do not breathe d<br>Wash hands, for<br>Do not eat, drink<br>Use only outdoor<br>Contaminated we<br>(P272)<br>Avoid release to   | structions before use. (P201)<br>ntil all safety precautions have been read and understood.<br>inal container. (P234)<br>ust/fume/gas/mist/vapors/spray. (P260)<br>earms and face thoroughly after handling. (P264)<br>or smoke when using this product. (P270)<br>rs or in a well-ventilated area. (P271)<br>ork clothing should not be allowed out of the workplace.<br>the environment. (P273)<br>gloves/protective clothing/eye protection/face protection.  |
| Response                         |  | (P301+P312)<br>IF SWALLOWED<br>(P301+P330+P3<br>IF ON SKIN (or h<br>Rinse skin with w<br>IF INHALED: Rei<br>breathing (P304-<br>IF IN EYES: Rins<br>contact lenses, if<br>(P305+P351+P3<br>IF exposed or co<br>(P308+P311)<br>Immediately call<br>Get medical advi<br>If skin irritation of<br>Take off contami<br>Absorb spillage t | hair): Take off immediately all contaminated clothing.<br>vater . (P303+P361+P353)<br>move person to fresh air and keep comfortable for<br>+P340)<br>se cautiously with water for several minutes. Remove<br>i present and easy to do. Continue rinsing.<br>38)<br>ncerned: Call a POISON CENTER or doctor.<br>a POISON CENTER or doctor. (P310)<br>ce/attention if you feel unwell. (P314)<br>r rash occurs: Get medical advice/attention. (P333+P313)<br>nated clothing and wash it before reuse. (P362+P364)<br>o prevent material-damage. (P390) |
| Storage                          | :  | : Store locked up.<br>Store in corrosive   | (P405)<br>e resistant container with a resistant inner liner. (P406)   |
| Disposal                         | :  |  | nts/container to hazardous or special waste collection<br>nce with local, regional, national and/or international<br>)   |

## 3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

| Name                | Concentration or    | Formula  | Kanpo   | CAS RN                            |            |
|---------------------|---------------------|----------|---------|-----------------------------------|------------|
| Name                | Concentration range | ronnula  | CSCL no | ISHL no                           | CASIN      |
| Mercury(II) nitrate | About 1.6%          | Hg(NO3)2 | -       | 1-(3)-115                         | 10045-94-0 |
| Nitric acid         | About 0.4%          | HNO3     | (1)-394 | Existing<br>Chemical<br>Substance | 7697-37-2  |
| Water               | About 98.0%         | H2O      | -       | -                                 | 7732-18-5  |

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are wt%, unless otherwise specified.

### 4. First aid measures

#### First aid measures

| First-aid measures after inhalation      | : | Remove person to fresh air and keep comfortable for breathing.<br>Get immediate medical advice/attention.                        |
|--|---|--|
| First-aid measures after skin<br>contact | : | Remove/Take off immediately all contaminated clothing.   |
| contact                                  |   | Gently wash with plenty of soap and water.   |
|  |   | Get immediate medical advice/attention.  |
| First-aid measures after eye<br>contact  | : | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
|  |   | Get immediate medical advice/attention.  |
| First-aid measures after ingestion       | : | Do NOT induce vomiting.  |
|  |   | Drink plenty of water.   |
|  |   | Rinse mouth.   |
|  |   | Get immediate medical advice/attention.  |
|  |   |  |

### 5. Fire fighting measures

| Suitable extinguishing media                        | : | Water spray, Alcohol-resistant foam, Dry powder, Carbon dioxide, Sand.   |
|---|---|--|
| Unsuitable extinguishing media                      | : | Do not use a heavy water stream.   |
| Explosion hazard                                    | : | May induce explosion of containers by heating.   |
| Hazardous decomposition products<br>in case of fire | : | In case of fire, product may produce irritative or toxic fumes/gases.  |
| Firefighting instructions                           | : | If ignited, for the initial fire-fighting, cut off combustion sources, extinguish fire at a stroke using appropriate fire-extinguishers. |
|   |   | In the case of peripheral fire, quickly remove movable containers to safe places.  |
|   |   | If unable to be moved containers, sprinkle water to containers and surrounding equipment, etc. to cool.                                  |
|   |   | Avoid (reject) fire-fighting water to enter environment.   |
|   |   | Even after extinguishing fire, thoroughly cool containers by using plenty of water.  |
| Protection during firefighting                      | : | Wear appropriate fire-resistant clothing including self contained-<br>compressed air breathing apparatus.                                |

#### 6. Accidental release measures

| Personal Precautions, Protective Eq | uipment and Emergency Procedures   |
|-------------------------------------|--|
| General measures                    | Before entering, ventilate the area.   |
|                                     | Do not let unauthorized persons come close to the area.  |
|                                     | Immediately place the leakage area in isolation, with taking proper distances for all directions.  |
|                                     | Wear appropriate personal protective devices to prevent inhalation and contact with eye, skin, and clothing, and never attempt to work on the lee. |
| Environmental precautions           |  |
| Environmental precautions :         | Avoid release to the environment.  |
|                                     | Prevent entry to sewers and public waters.   |

#### Methods and Equipment for Containment and Cleaning up

| methods and Equipment for Conte                          |   |  |
|--|---|--|
| Methods for cleaning up                                  | : | Clean up any spills as soon as possible, using an absorbent material to collect it.  |
|  |   | Collect leaking and spilled liquid in sealable containers as far as possible.  |
|  |   | Wash out the spilled area with large amounts of water.   |
|  |   | If possible, neutralize with slaked lime, soda ash, etc. before washing out.   |
| 7. Handling and storage                                  |   |  |
| Handling   |   |  |
| Technical measures                                       | : | Work with appropriate personal protective equipment to prevent inhalation or contact to eyes, skin, and clothing.                    |
|  |   | Handle with care to prevent leakage, overflowing, or scattering, minimize generation of mist or vapor, and thoroughly ventilate.     |
| Precautions for safe handling                            | : | Do not eat, drink or smoke when using this product.  |
|  |   | Thoroughly wash your hands and gargle after handling.  |
|  |   | Ensure good ventilation of the work station.   |
|  |   | Do not contact, breathe or swallow.  |
| Prevents handling of incompatible substances or mixtures | : | Avoid prolonged or repeated exposure.  |
| Storage  |   |  |
| Storage conditions                                       | : | Store locked up.   |
| U U  |   | Store in a well-ventilated place, away from direct sunlight. Keep container tightly closed and keep away from fire and heat sources. |
|  |   | Store in corrosive resistant container with a resistant inner liner.   |
| Material used in<br>packaging/containers                 | : | Light shielding airtight container.  |
| Technical measures                                       | : | Comply with applicable regulations.  |
| Storage temperature                                      | : | Cool and dark place  |
|  |   |  |

### 8. Exposure controls / Personal protection equipment

| Exposure limit values            |  |  |  |  |
|----------------------------------|--|--|--|--|
| Mercury(II) nitrate              |  |  |  |  |
| Japan administration level       | 0.025mg/m3(as Hg)  |  |  |  |
| Exposure limits (ACGIH)          | TWA 0.025 mg/m3,STEL - (as Hg Elemental and inorganic forms) (Skin)  |  |  |  |
| Nitric acid                      |  |  |  |  |
| Exposure limits (JSOH)           | 2ppm(5.2mg/m3)   |  |  |  |
| Exposure limits (ACGIH)          | TWA 2 ppm,STEL 4 ppm   |  |  |  |
| Appropriate engineering controls | : Cover up tightly the generation source at the handling place or install local exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location. |  |  |  |
| Protective equipment             |  |  |  |  |
| Respiratory protection           | : Gas mask for acid gases  |  |  |  |
| Hand protection                  | : Impervious protective gloves   |  |  |  |
| Eye protection                   | : Protective glasses (general glasses, glasses with side-shields, goggles)   |  |  |  |
| Skin and body protection         | : Impervious aprons, Impervious work clothing, Impervious long boots   |  |  |  |

# 9. Physical and chemical properties

| Physical state | : | Liquid                |
|----------------|---|-----------------------|
| Appearance     | : | Liquid                |
| Color          | : | colorless transparent |
| Odor           | : | No data available     |
| рН             | : | Strong acid           |
| Melting point  | : | No data available     |
| Freezing point | : | No data available     |
| Boiling point  | : | No data available     |
| Flash point    | : | No data available     |

| Auto-ignition temperature                           | : | No data available |
|---|---|-------------------|
| Decomposition temperature                           | : | No data available |
| Flammability (solid, gas)                           | : | No data available |
| Vapor pressure                                      | : | No data available |
| Relative density                                    | : | No data available |
| Density   | : | 1.00 g/cm3 (20°C) |
| Relative gas density                                | : | No data available |
| Solubility  | : | No data available |
| Partition coefficient n-<br>octanol/water (Log Pow) | : | No data available |
| Explosive limits (vol %)                            | : | No data available |
| Viscosity, kinematic                                | : | No data available |
| Particle characteristics                            | : | No data available |
|   |   |                   |

# 10. Stability and reactivity

| Reactivity                          | : | No data available  |
|-------------------------------------|---|--|
| Chemical stability                  | : | Stable under normal handling conditions.   |
| Possibility of hazardous reactions  | : | Reacts with acetylene, alcohol, phosphine and sulfur, it may produce very sensitive compounds to impact. May react with petroleum-based hydrocarbons. Corrodes metals. |
| Conditions to avoid                 | : | Sunlight, heat. Contact with acetylene, alcohol, phosphine, sulfur, petroleum-based hydrocarbons and metals.   |
| Incompatible materials              | : | Acetylene, Alcohol, Phosphine, Sulfur, Petroleum-based hydrocarbons, Metals  |
| Hazardous decomposition<br>products | : | Mercury compounds, Nitrogen oxides   |

## **11. Toxicological information**

The information in this section is based on the "GHS Classification Results" by NITE.

| As a product                          |  |
|---------------------------------------|--|
| Acute toxicity (oral)                 | Category 4                             |
| Acute toxicity (dermal)               | classification not possible            |
| Acute toxicity (inhalation)           | vapors:Category 4                      |
|                                       | Gases:No classification                |
|                                       | dust, mist:classification not possible |
| Skin corrosion/irritation             | Category 1                             |
| Serious eye damage/irritation         | Category 1                             |
| Respiratory sensitization             | classification not possible            |
| Skin sensitization                    | Category 1                             |
| Germ cell mutagenicity                | Category 2                             |
| Carcinogenicity                       | classification not possible            |
| Reproductive toxicity                 | classification not possible            |
| STOT-single exposure                  | Category 2                             |
| STOT-repeated exposure                | Category 2                             |
| Aspiration hazard                     | classification not possible            |
| Mercury(II) nitrate                   |  |
| Acute toxicity (oral)                 | Category 2                             |
| Acute toxicity (dermal)               | Category 2                             |
| Acute toxicity (gas)                  | No classification                      |
| Acute toxicity (vapour)               | classification not possible            |
| Acute toxicity (inhalation:dust/mist) | classification not possible            |
| Skin corrosion/irritation             | Category 1                             |
| Serious eye damage/irritation         | Category 1                             |
| Respiratory sensitization             | classification not possible            |
| Skin sensitization                    | Category 1                             |
| Germ cell mutagenicity                | Category 2                             |
| Carcinogenicity                       | No classification                      |
| Reproductive toxicity                 | Category 2                             |
| STOT-single exposure                  | Category 1 Category 2                  |

| Mercury(II) nitrate                   |                             |  |
|---------------------------------------|-----------------------------|--|
| STOT-repeated exposure                | Category 1                  |  |
| Aspiration hazard                     | classification not possible |  |
| Nitric acid                           |                             |  |
| Acute toxicity (oral)                 | classification not possible |  |
| Acute toxicity (dermal)               | classification not possible |  |
| Acute toxicity (gas)                  | No classification           |  |
| Acute toxicity (vapour)               | Category 1                  |  |
| Acute toxicity (inhalation:dust/mist) | classification not possible |  |
| Skin corrosion/irritation             | Category 1                  |  |
| Serious eye damage/irritation         | Category 1                  |  |
| Respiratory sensitization             | classification not possible |  |
| Skin sensitization                    | classification not possible |  |
| Germ cell mutagenicity                | classification not possible |  |
| Carcinogenicity                       | classification not possible |  |
| Reproductive toxicity                 | classification not possible |  |
| STOT-single exposure                  | Category 1                  |  |
| STOT-repeated exposure                | Category 1                  |  |
| Aspiration hazard                     | classification not possible |  |
| Water                                 |                             |  |
| Acute toxicity (oral)                 | No classification           |  |
| Acute toxicity (dermal)               | No classification           |  |
| Acute toxicity (gas)                  | No classification           |  |
| Acute toxicity (vapour)               | No classification           |  |
| Acute toxicity (inhalation:dust/mist) | No classification           |  |
| Skin corrosion/irritation             | No classification           |  |
| Serious eye damage/irritation         | No classification           |  |
| Respiratory sensitization             | No classification           |  |
| Skin sensitization                    | No classification           |  |
| Germ cell mutagenicity                | No classification           |  |
| Carcinogenicity                       | No classification           |  |
| Reproductive toxicity                 | No classification           |  |
| STOT-single exposure                  | No classification           |  |
| STOT-repeated exposure                | No classification           |  |
| Aspiration hazard                     | No classification           |  |

## 12. Ecological information

The information in this section is based on the "GHS Classification Results" by NITE.

| As a product  |                             |  |
|---|-----------------------------|--|
| Hazardous to the aquatic environment, short-term (acute)  | Category 2                  |  |
| Hazardous to the aquatic environment, long-term (chronic) | Category 3                  |  |
| Persistence and degradability                             | No data available           |  |
| Bioaccumulative potential                                 | No data available           |  |
| Mobility in soil  | No data available           |  |
| Ozone   | classification not possible |  |
| Mercury(II) nitrate                                       |                             |  |
| Hazardous to Aquatic Environment -<br>Acute Hazard        | Category 1                  |  |
| Hazardous to Aquatic Environment -<br>Chronic Hazard      | Category 1                  |  |
| Persistence and degradability                             | No data available           |  |
| Bioaccumulative potential                                 | No data available           |  |
| Mobility in soil  | No data available           |  |
| Hazardous to the ozone layer                              | No data available           |  |

| Nitric acid   |                                     |  |  |
|---|-------------------------------------|--|--|
| Hazardous to Aquatic Environment -<br>Acute Hazard  | Category 3                          |  |  |
| Hazardous to Aquatic Environment -<br>Chronic Hazard  | No classification                   |  |  |
| Persistence and degradability   | No data available                   |  |  |
| Bioaccumulative potential   | No data available                   |  |  |
| Mobility in soil  | No data available                   |  |  |
| Hazardous to the ozone layer  | classification not possible         |  |  |
|   |                                     |  |  |
| Water   |                                     |  |  |
| Water<br>Hazardous to Aquatic Environment -<br>Acute Hazard   | No classification                   |  |  |
| Hazardous to Aquatic Environment -  | No classification No classification |  |  |
| Hazardous to Aquatic Environment -<br>Acute Hazard<br>Hazardous to Aquatic Environment -  |                                     |  |  |
| Hazardous to Aquatic Environment -<br>Acute Hazard<br>Hazardous to Aquatic Environment -<br>Chronic Hazard                                  | No classification                   |  |  |
| Hazardous to Aquatic Environment -<br>Acute Hazard<br>Hazardous to Aquatic Environment -<br>Chronic Hazard<br>Persistence and degradability | No classification No data available |  |  |

# 13. Disposal considerations

| Ecology - waste materials               | : | With the detail information of the waste, subcontract its disposal to a waste disposer authorized by a Prefectural Governor.                              |
|---|---|---|
| Contaminated container and<br>packaging | : | Empty the packaging completely prior to disposal.<br>Empty containers should be taken for recycle, recovery or waste in accordance with local regulation. |

### 14. Transport information

#### International Regulations

#### Transport by sea(IMDG)

|                                       | 3264<br>CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.<br>II<br>8<br>8<br>8<br>8                            |
|---------------------------------------|--|
|                                       | 274<br>P001<br>IBC02<br>T11<br>TP2, TP27<br>B<br>Causes burns to skin, eyes and mucous membranes.<br>154 |
|                                       |  |
|                                       | 3264<br>Corrosive liquid, acidic, inorganic, n.o.s.<br>II<br>8<br>8<br>8<br>8                            |
| :                                     | E2<br>Y840<br>0.5L   |
| · · · · · · · · · · · · · · · · · · · | 851<br>1L<br>855<br>30L<br>A3, A803<br>8L<br>Not applicable  |
|                                       |  |

#### **Regulations in Japan**

| Regulatory information by sea<br>Regulatory information by air | <ul><li>Conform to the provisions of the Ship Safety Law.</li><li>Conform to the provisions of the Civil Aeronautics Law.</li></ul>    |
|--|--|
| MFAG-No  | : 154  |
| Special transport precautions                                  | : When transporting, load containers so that they do not tip over, damage, drop or collapse. Make sure there is no leak in containers. |

# 15. Regulatory information

| National law   |   |   |
|--|---|---|
| Industrial Safety and Health Law                                   | : | Group 2 Specified Chemical Substance, Group 2 Substance Under<br>Supervision (Ordinance on Prevention of Hazards Due to Specified<br>Chemical Substances Art.2 Para.1, Item 2,5)<br>Working Environment Evaluation Standards, Administrative Control<br>Levels (Law Art.65-2, Para.1)<br>Harmful Substances Whose Names Are to be Indicated on the Label<br>(Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2,<br>Attached Table No.9)<br>Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2<br>Item 1, Item 2, Attached Table No.9)<br>Mercury and its inorganic compounds (Ordinance number : 315)<br>Corrosive Liquids (Ordinance on Industrial Safety and Health Law Art.<br>326)<br>Substances on Special medical examination, Current handling<br>workers (Act, Art.66, Para.2, Enforcement Order, Art.22 Item 1)<br>Substances on dental health checkup (Act, Art.66, Para.3,<br>Enforcement Order, Art.22 Item 3) |
| Japanese Poisonous and<br>Deleterious Substances Control Law       | : | Poisonous Substances (Designated Order, Art.1)<br>Mercury compounds and preparations containing them. (except for<br>the following substances; i)aminochloromercury(II) and preparations<br>containing it, ii)mercury(I) chloride and preparations containing it,<br>iii)mercury oleate and preparations containing it, iv)preparations<br>which contain 5 % or less of mercury oxide, v)mercury(I) iode and<br>preparations containing it, vi)mercury(II) fulminate and preparations<br>containing it, vii)mercury(II) sulfide and preparations containing it)   |
| Water Pollution Prevention Law                                     | : | Hazardous Substances (Act, Art.2, Enforcement Order Art.2,<br>Ministerial Ordinance to Provide for Effluent Standards, Art.1)   |
| Fire Service Law   | : | Not applicable  |
| Air Pollution Control Law  | : | Hazardous Air Pollutants, Priority Substances (Central Environment<br>Council Report No. 9)   |
| Foreign Exchange and Foreign<br>Trade Control Act                  | : | Export Trade Control Ordinance appendix 1-16<br>Export Approval (Export Trade Control Order, Attached Table 2)  |
| Ship Safety Act  | : | Corrosive substances (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations)   |
| Civil Aeronautics Law  | : | Corrosive substances (Hazardous materials notice Appended Table 1<br>Article 194 of the Enforcement Regulations)  |
| Port Regulation Law  | : | Corrosive substances (Article 21, Paragraph 2 of Law, Article 12 rule, notice attached table that defines the type of dangerous goods)  |
| Road Act   | : | Restriction for Vehicle Traffic (Enforcement Order Art.19-13, Publication of Japan Highway Pablic Corp.)  |
| Waste Management on Public<br>Cleansing Law                        | : | Specially Controlled Industrial Wastes (Act Art.2, para 5, Enfothment Order Art.2-4)  |
| Waterworks Law   | : | Hazardous Substances (Act Article 4 paragraph 2), Standard for Water Quality (Ministry Order No.101 of 2003)  |
| Sewerage Law   | : | Substances for Water Quality Standard (Act Art.12-2 Para.2, Enforcement Order Art.9-4)  |
| Japanese Pollutant Release and<br>Transfer Register Law (PRTR Law) | : | Not applicable  |
| Labor Standards Act  | : | Chemical Substances Causing Occupational Illnesses (Act Art.75, Para.2, Ordinance Attached Table 1-2, Item 4-1, MHLW Nortification No.36 of 1978)   |
| Soil Contamination<br>Countermeasures Law                          | : | Designated Hazardous Substances (Act Art.2 Para.3, Enforcement Order Art.1)   |

## 16. Other information

| Data sources :      | Handbook of 17423 Chemical Products, The Chemical Daily Co, Ltd.<br>International Chemical Safety Cards.<br>National Institute of Technology and Evaluation (NITE).<br>2020 Emergency Response Guidebook (ERG 2020).   |
|---------------------|--|
| Other information : | The SDS is copyrighted material of Hayashi Pure Chemical Ind, Ltd.<br>This Safety Data Sheet is intended to be provided for business<br>operators who handle chemical substance products of the relevant<br>product and is not intended to assure safety in any way. The Safety<br>Data Sheet does not verify all the information on the applicable<br>chemical substance in the present time. With the recognition in that<br>unknown danger constantly exists in the relevant chemical substance,<br>the product shall be used in the principle of self-responsibility of the<br>user with the highest priority to safety from transport and unpacking to<br>disposal. When the relevant chemical substance is used, the user<br>him/herself shall collect safety information and shall investigate laws<br>and regulations at the place, organizations, countries, etc. where the<br>substance is actually used and give the highest priority to them. The<br>Company shall take no responsibility for investigating state and local<br>regulations and the user shall handle this problem on his/her own<br>responsibility. In the event that SDS in Japanese and SDS translated<br>into other languages exist, the document described in Japanese is<br>prior to all other documents whether or not there is any difference in<br>contents, and documents in other languages shall be references. |