

# 20W/V% Sodium gluconate solution

Hayashi Pure Chemical Ind.,Ltd.

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SDS code: N6-06

Version: 05

# Safety Data Sheet

## 1. Chemical product and company identification

| Product name<br>SDS code   | :           | 20W/V% Sodium gluconate solution<br>N6-06  |
|--|-------------|--|
| Company/undertaking<br>identification<br>HAYASHI PURE CHEMICAI<br>Address : 3-2-12 Uchihiran<br>Telephone : 06-6910-7305<br>E-mail : shiyaku_kikaku@h<br>URL : https://www.hpc-j.co. | oma<br>pc-j | ichi, 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   | Desensitized explosives  | classification not possible |
|--------------------|--|-----------------------------|
| T Trysloar nazaras | Explosives   | classification not possible |
|                    | Flammable gases  | No classification           |
|                    | Aerosol  | classification not possible |
|                    | Oxidizing gases  | No classification           |
|                    | Gases under pressure   | No classification           |
|                    | Flammable liquids  | classification not possible |
|                    | Flammable solids   | No classification           |
|                    | Self-reactive substances and   | classification not possible |
|                    | mixtures   | classification not possible |
|                    | Pyrophoric liquids   | classification not possible |
|                    | Pyrophoric solids  | No classification           |
|                    | Self-heating substances and<br>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  | classification not possible |
| Health hazards     | Acute toxicity (oral)  | classification not possible |
|                    | Acute toxicity (dermal)  | classification not possible |
|                    | Acute toxicity (inhalation:gas)  | classification not possible |
|                    | Acute toxicity (inhalation:vapors)                                       | classification not possible |
|                    | Acute toxicity (inhalation:dust/mist)                                    | classification not possible |
|                    | Skin corrosion/irritation  | classification not possible |
|                    | Serious eye damage/eye irritation  | classification not possible |
|                    | 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 |
|                    | Specific target organ toxicity (single exposure)                         | classification not possible |

|                          | Specific target organ toxicity (repeated exposure)           | classification not possible |
|--------------------------|--|-----------------------------|
|                          | Aspiration hazard  | classification not possible |
| Environmental<br>hazards | Hazardous to the aquatic<br>environment, short-term (acute)  | classification not possible |
|                          | Hazardous to the aquatic<br>environment, long-term (chronic) | classification not possible |
|                          | Hazardous to the ozone layer                                 | classification not possible |

## 3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

| Name             | Concentration or    | Formula   | Kanpo    | CAS RN                            |           |
|------------------|---------------------|-----------|----------|-----------------------------------|-----------|
| Name             | Concentration range | Tornula   | CSCL no  | ISHL no                           |           |
| Sodium gluconate | About 18.2%         | C6H11NaO7 | (2)-1410 | Existing<br>Chemical<br>Substance | 527-07-1  |
| Water            | About 81.8%         | 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.   |
|--|---|--|
|  |   | Get immediate medical advice/attention.  |
| First-aid measures after skin                    | : | 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               | : | Rinse mouth.   |
|  |   | Get immediate medical advice/attention.  |
|  |   |  |
| 5. Fire fighting measures                        |   |  |
| Suitable extinguishing media                     | : | Use proper extinguishing media depending on peripheral fire.   |
| Unsuitable extinguishing media                   | : | Do not use a heavy water stream.   |
| Hazardous decomposition products 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  |

| fire at       | a strol | ke using | app  | ropi  | riate fire | -е | xtingu | ishe | ers.  |    |          |         |
|---------------|---------|----------|------|-------|------------|----|--------|------|-------|----|----------|---------|
| In the places |         | f periph | eral | fire, | quickly    | re | emove  | mc   | vable | со | ntainers | to safe |
| 10            |         |          |      |       |            |    |        |      |       |    |          |         |

If unable to be moved containers, sprinkle water to containers and surrounding equipment, etc. to cool.

| Protection during firefighting | : | Wear appropriate fire-resistant clothing including self contained-<br>compressed air breathing apparatus. |
|--------------------------------|---|---|
|--------------------------------|---|---|

### 6. Accidental release measures

| Personal Precautions, Protective Equipment and Emergency Procedures |   |  |  |
|---|---|--|--|
| General measures  | : | 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 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.                              |
|                         |   |   |

## 7. Handling and storage

| Handling   |  |
|--|--|
| Technical measures                                       | Work with appropriate personal protective equipment to prevent inhalation<br>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 in a well-ventilated place, away from direct sunlight. Keep contained tightly closed and keep away from fire and heat sources. |
| Material used in<br>packaging/containers                 | Airtight container.  |
| Technical measures                                       | Comply with applicable regulations.  |
| Storage temperature                                      | Refrigerate  |

## 8. Exposure controls / Personal protection equipment

| 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           | : Protective mask  |
| 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 :   | Almost colorless $\sim$ very pale yellow transparent |
| Odor :  | Odorless   |
| pH :  | 6.9 (25°C)   |
| 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 :  | No data available                                    |
| Vapor pressure :                                      | No data available                                    |
| Relative density :                                    | No data available                                    |
| Density :   | 1.10 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. May become discolored due to light or heat. |
| Possibility of hazardous reactions  | : | Reacts with strong oxidizing agents.   |
| Conditions to avoid                 | : | Sunlight, heat. Contact with strong oxidizing agents.                                |
| Incompatible materials              | : | Strong oxidizing agents  |
| Hazardous decomposition<br>products | : | No data available  |

## 11. Toxicological information

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

| As a product   |  |  |  |  |
|--|--|--|--|--|
| Acute toxicity (oral)                                      | classification not possible                                |  |  |  |
| Acute toxicity (dermal)                                    | classification not possible                                |  |  |  |
| Acute toxicity (inhalation)                                | vapors:classification not possible                         |  |  |  |
|  | Gases:classification not possible                          |  |  |  |
| Obie a suma sieve limite tieve                             | dust, mist:classification not possible                     |  |  |  |
| Skin corrosion/irritation                                  | classification not possible                                |  |  |  |
| Serious eye damage/irritation<br>Respiratory sensitization | classification not possible<br>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                                       | classification not possible                                |  |  |  |
| STOT-repeated exposure                                     | classification not possible                                |  |  |  |
| Aspiration hazard  | classification not possible                                |  |  |  |
| Sodium gluconate   |  |  |  |  |
| Acute toxicity (oral)                                      | No data available  |  |  |  |
| Acute toxicity (dermal)                                    | No data available  |  |  |  |
| Acute toxicity (gas)                                       | No data available  |  |  |  |
| Acute toxicity (vapour)                                    | No data available  |  |  |  |
| Acute toxicity (inhalation:dust/mist)                      | No data available  |  |  |  |
| Skin corrosion/irritation                                  | No data available  |  |  |  |
| Serious eye damage/irritation                              | No data available  |  |  |  |
| Respiratory sensitization                                  | No data available  |  |  |  |
| Skin sensitization   | No data available  |  |  |  |
| Germ 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  |  |  |  |
| Water  | 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  |  |  |  |

| Water                  |                   |  |  |
|------------------------|-------------------|--|--|
| 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, | classification not possible |  |  |
| short-term (acute)                    |                             |  |  |
| Hazardous to the aquatic environment, | classification not possible |  |  |
| long-term (chronic)                   |                             |  |  |
| Persistence and degradability         | No data available           |  |  |
| Bioaccumulative potential             | No data available           |  |  |
| Mobility in soil                      | No data available           |  |  |
| Ozone                                 | classification not possible |  |  |
| Sodium gluconate                      |                             |  |  |
| Hazardous to Aquatic Environment -    | No data available           |  |  |
| Acute Hazard                          |                             |  |  |
| Hazardous to Aquatic Environment -    | No data available           |  |  |
| Chronic Hazard                        |                             |  |  |
| 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           |  |  |
| Water                                 |                             |  |  |
| Hazardous to Aquatic Environment -    | No classification           |  |  |
| Acute Hazard                          |                             |  |  |
| Hazardous to Aquatic Environment -    | No classification           |  |  |
| Chronic Hazard                        |                             |  |  |
| 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 |  |  |

#### 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 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)

UN-No. (IMDG) Proper Shipping Name (IMDG) Packing group (IMDG) Transport hazard class(es) (IMDG)

#### Air transport(IATA)

UN-No. (IATA) Proper Shipping Name (IATA) Packing group (IATA)

Not applicable Not applicable : Not applicable : Not applicable : Not applicable

Not applicable : : Not applicable

:

:

| Transport hazard class(es) (IATA)                              | : Not applicable   |
|--|--|
| Marine pollutant   | : Not applicable   |
| Regulations in Japan<br>Regulatory information by sea          | : Not applicable   |
| Regulatory information by air<br>Special transport precautions | <ul> <li>Not applicable</li> <li>When transporting, load containers so that they do not tip over,</li> </ul> |
| opeolar transport productions                                  | damage, drop or collapse. Make sure there is no leak in containers.  |
| 15. Regulatory information                                     |  |
| National law   |  |
| Industrial Safety and Health Law                               | : Not applicable   |

| • | Not applicable                               |
|---|--|
| : | Not applicable                               |
| : | Not applicable                               |
| : | Export Trade Control Ordinance appendix 1-16 |
| : | Not applicable                               |
|   | :  |

### 16. Other information

| Data | sources |  |
|------|---------|--|
|      |         |  |

Other information

- Handbook of 17524 Chemical Products, The Chemical Daily Co, Ltd. International Chemical Safety Cards.
   National Institute of Technology and Evaluation (NITE).
   2020 Emergency Response Guidebook (ERG 2020).
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