

Issue date 2024-08-30

## SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Ginsenoside Rb1  
 Product No. 12  
 Supplier Name IWASHIMA YAKUHHIN Co., Ltd.  
 Address 4-201, Sakurazaka, Moriyama-ku, Nagoya City, Aichi Prefecture 463-0018, Japan  
 Tel +81-52-715-5601  
 Fax +81-52-715-5602  
 Email address info@iwashimayakuhin.co.jp  
 Recommended uses and restrictions on use For research use only, do not use for human or animals.

## 2. Hazards identification

## GHS classification

Health hazards Acute toxicity - Oral Category4  
 Acute toxicity - Inhalation Category4  
 (Dusts/Mists)  
 Acute toxicity - Dermal Category4  
 Pictograms



Signal word  
 Hazard statements  
 Precautionary statements  
 Prevention

Warning  
 Harmful if swallowed, in contact with skin, and inhaled.

Wash hands thoroughly after handling.  
 Do not breathe dust.  
 Do not eat, drink or smoke when using this product.  
 Use only outdoors or in a well-ventilated area.  
 Wear protective gloves/protective clothing/eye protection/face protection.

## Response

IF SWALLOWED: Contact a doctor if you feel unwell.  
 Rinse mouth.  
 IF ON SKIN: Wash with plenty of water. If symptoms persist, call a physician.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Contact a doctor if you feel unwell.  
 Take off contaminated clothing and wash it before reuse.

Storage  
 Disposal

Not applicable  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Not available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance  
 Chemical Name Ginsenoside Rb1  
 Concentration or concentration range 99.0%  
 Formula (Molecular weight) C54H92O23 (1109.29)  
 CAS RN 41753-43-9  
 Notice Through Official Gazettes Reference Number (ENCS) —  
 Notice Through Official Gazettes Reference Number (ISHL) —  
 PRTR —  
 Impurities and/or Additives Not applicable

## 4. FIRST AID MEASURES

|                                                                     |                                      |                                                                                                                             |
|---------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Inhalation                                                          |                                      | Remove person to fresh air and keep comfortable for breathing.                                                              |
| Skin contact                                                        |                                      | Wash with plenty of water.If symptoms persist, call a physician.                                                            |
| Eye contact                                                         |                                      | Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If |
| Ingestion                                                           |                                      | Get emergency medical help immediately.Rinse mouth.                                                                         |
| Most important symptoms/effects, acute and delayed                  |                                      | Not available.                                                                                                              |
| Protection of first-aiders                                          |                                      | Not available.                                                                                                              |
| Special notes for physicians                                        |                                      | Not available.                                                                                                              |
| <b>5. FIRE FIGHTING MEASURES</b>                                    |                                      |                                                                                                                             |
| Suitable extinguishing media                                        |                                      | Water spray (fog), Foam, Extinguishing powder, Carbon dioxide (CO2)                                                         |
| Unsuitable extinguishing media                                      |                                      | Not available.                                                                                                              |
| Specific hazards arising from the chemical product                  |                                      | In the event of a fire, highly toxic decomposed products may be generated.                                                  |
| Special extinguishing method                                        |                                      | Not available.                                                                                                              |
| Special protective actions for fire-fighters                        |                                      | Wear self-contained breathing apparatus , protective gloves and eye protection.                                             |
| <b>6. ACCIDENTAL RELEASE MEASURES</b>                               |                                      |                                                                                                                             |
| Personal precautions, protective equipment and emergency procedures |                                      | Keep unnecessary personnel away.                                                                                            |
| Environmental precautions                                           |                                      | Ensure adequate ventilation.Wear protect clothes while the                                                                  |
| Methods and materials for contaminant and cleaning up               |                                      | Avoid release to the environment.                                                                                           |
| Secondary disaster prevention measures                              |                                      | Collect spillage appropriately to prevent it from scattering.                                                               |
|                                                                     |                                      | For waste disposal, see section 13 of the SDS.                                                                              |
|                                                                     |                                      | Clean contaminated objects and areas thoroughly to remove                                                                   |
| <b>7. HANDLING AND STORAGE</b>                                      |                                      |                                                                                                                             |
| Handling                                                            | Technical measures                   | See section 8 of the SDS, perform engineering controls and wear protective equipment.                                       |
|                                                                     | Safety handling precautions          | Do not rough handling containers. Avoid contact and inhalation of dust.                                                     |
|                                                                     | Contact avoidance                    | Wear protective equipment.                                                                                                  |
|                                                                     | Hygiene measures                     | Seal the container after use.                                                                                               |
| Storage                                                             | Safe storage conditions              | After handling, wash hands.                                                                                                 |
|                                                                     | Safe storage conditions              | See section 10 of the SDS.                                                                                                  |
|                                                                     | Safe storage conditions              | After handling, wash hands.                                                                                                 |
|                                                                     | Safe storage conditions              | Do not take food, drink and smoking while handling.                                                                         |
|                                                                     |                                      | Store in a cool, dark place.Protect from sunlight.                                                                          |
|                                                                     |                                      | Glass.Keep container tightly closed.                                                                                        |
| <b>8. EXPOSURE CONTROLS/PERSONAL PROTECTION</b>                     |                                      |                                                                                                                             |
| Administrative Control Levels                                       |                                      | No set up.                                                                                                                  |
| Occupational Exposure Limits                                        | Japan Society for Occupational ACGIH | No set up.                                                                                                                  |
| Engineering controls                                                |                                      | No set up.                                                                                                                  |
| Personal protective equipment                                       | Respiratory protection               | Provide the safety shower facility, and hand and eye-wash facility.                                                         |
|                                                                     | Hand protection                      | Use a local exhaust system                                                                                                  |
|                                                                     | Eye/face protection                  | Dust mask                                                                                                                   |
|                                                                     | Skin and body protection             | Protection gloves                                                                                                           |
| Special note                                                        |                                      | Chemical safety goggles                                                                                                     |
|                                                                     |                                      | Lab Coat, long sleeve work clothes                                                                                          |
|                                                                     |                                      | Protective equipment should be inspected periodically according to the protective inspection chart.                         |
| <b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>                          |                                      |                                                                                                                             |

|                                                        |                                                        |                                                                                   |
|--------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------|
| Physical state                                         | State                                                  | Solid                                                                             |
|                                                        | Colour                                                 | White                                                                             |
|                                                        | Odor                                                   | Odorless                                                                          |
| Melting point/freezing point                           |                                                        | About 197°C                                                                       |
| Boiling point, initial boiling point and boiling range |                                                        | No data available                                                                 |
| Flammability                                           |                                                        | No data available                                                                 |
| Upper/lower flammability or explosive limits           |                                                        | No data available                                                                 |
| Flash point                                            |                                                        | No data available                                                                 |
| Auto-ignition temperature                              |                                                        | No data available                                                                 |
| Decomposition temperature                              |                                                        | No data available                                                                 |
| pH                                                     |                                                        | No data available                                                                 |
| Kinematic viscosity                                    |                                                        | No data available                                                                 |
| Solubilities                                           |                                                        | Freely soluble in water and in methanol, and sparingly soluble in ethanol (99.5). |
| n-Octanol/water partition coefficient: (log Pow)       |                                                        | No data available                                                                 |
| Vapour pressure                                        |                                                        | No data available                                                                 |
| Specific Gravity / Relative density                    |                                                        | No data available                                                                 |
| Vapour density                                         |                                                        | No data available                                                                 |
| Particle characteristics                               |                                                        | No data available                                                                 |
| Other data                                             |                                                        | No data available                                                                 |
| <b>1 0 . STABILITY AND REACTIVITY</b>                  |                                                        |                                                                                   |
| Reactivity                                             |                                                        | No data available                                                                 |
| Chemical stability                                     |                                                        | Decompose by heat and light.                                                      |
| Hazardous reactions                                    |                                                        | No data available                                                                 |
| Conditions to avoid                                    |                                                        | High temperature and direct sunlight.                                             |
| Incompatible materials                                 |                                                        | No data available                                                                 |
| Hazardous decomposition products                       |                                                        | No data available                                                                 |
| <b>1 1 . TOXICOLOGICAL INFORMATION</b>                 |                                                        |                                                                                   |
| Acute toxicity - Oral                                  |                                                        | No data available                                                                 |
| Acute toxicity (Dermal)                                |                                                        | No data available                                                                 |
| Acute toxicity (Inhalation : gas)                      |                                                        | No data available                                                                 |
| Acute toxicity (Inhalation : vapours)                  |                                                        | No data available                                                                 |
| Acute toxicity - Inhalation (Dusts/Mists)              |                                                        | No data available                                                                 |
| Skin irritation/corrosion                              |                                                        | No data available                                                                 |
| Serious eye damage/ irritation                         |                                                        | No data available                                                                 |
| Respiratory sensitization                              |                                                        | No data available                                                                 |
| Skin sensitization                                     |                                                        | No data available                                                                 |
| Reproductive cell mutagenicity                         |                                                        | No data available                                                                 |
| Carcinogenicity                                        |                                                        | No data available                                                                 |
| Reproductive toxicity                                  |                                                        | No data available                                                                 |
| Reproductive toxicity, effects on or via lactation     |                                                        | No data available                                                                 |
| STOT-single exposure                                   |                                                        | No data available                                                                 |
| STOT-repeated exposure                                 |                                                        | No data available                                                                 |
| Aspiration hazard                                      |                                                        | No data available                                                                 |
| <b>1 2 . ECOLOGICAL INFORMATION</b>                    |                                                        |                                                                                   |
| Ecotoxicity                                            | Hazardous to the aquatic environment, acute hazard     | No data available                                                                 |
|                                                        | Hazardous to the aquatic environment, long-term hazard | No data available                                                                 |
| Persistence and degradability                          |                                                        | No data available                                                                 |
| Bioaccumulative potential                              |                                                        | No data available                                                                 |
| Mobility in soil                                       |                                                        | No data available                                                                 |
| Hazard to the ozone layer                              |                                                        | No data available                                                                 |

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| 1 3 . DISPOSAL CONSIDERATIONS                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                    |
| Waste from residues                                                                                                                                                                                                                                                                                                                                                                                                          | Dispose of contents/container in accordance with local/regional/national/international regulations.                                                                                                                                                                                                                                                                                                                          |                                                    |
| Contaminated container and contaminated packaging                                                                                                                                                                                                                                                                                                                                                                            | Dispose of contents/container in accordance with local/regional/national/international regulations.                                                                                                                                                                                                                                                                                                                          |                                                    |
| 1 4 . TRANSPORT INFORMATION                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                    |
| International restriction                                                                                                                                                                                                                                                                                                                                                                                                    | UN Number<br>Proper shipping name<br>UN classification (Transport hazard class)<br>Subsidiary hazard class<br>Packing group<br>Marine pollutant                                                                                                                                                                                                                                                                              | Not regulated<br><br><br><br><br>Not applicable    |
| Domestic restriction                                                                                                                                                                                                                                                                                                                                                                                                         | Marine<br>Aviation<br>Rail and road                                                                                                                                                                                                                                                                                                                                                                                          | Not applicable<br>Not applicable<br>Not applicable |
| 1 5 . REGULATORY INFORMATION                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                    |
| Industrial Safety and Health Act                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                              | Not applicable                                     |
| Pollutant Release and Transfer Register Law                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                              | Not applicable                                     |
| Poisonous and Deleterious Substances Control Law                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                              | Not applicable                                     |
| Labor Standards Act                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                              | Not applicable                                     |
| Act on the Regulation of Manufacture and Evaluation of Chemical Substances                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                              | Not applicable                                     |
| Fire Service Act                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                              | Not applicable                                     |
| Air Pollution Control Act                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                              | Not applicable                                     |
| Water Pollution Prevention Act                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                              | Not applicable                                     |
| Water Supply Service Act                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                              | Not applicable                                     |
| Sewerage Act                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                              | Not applicable                                     |
| Act on Prevention of Marine Pollution and Maritime Disaster                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                              | Not applicable                                     |
| Act on Waste Management and Public Cleaning                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                              | Not applicable                                     |
| 1 6 . OTHER INFORMATION                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                    |
| Key literature references and sources for data etc.                                                                                                                                                                                                                                                                                                                                                                          | NITE: National Institute of Technology and Evaluation (JAPAN): Nite Chemical Risk Information Platform<br>Ministry of Health, Labour and Welfare : GHS model SDS information<br>Japanese Pharmacopoeia<br>Inagaki I(1972)[ Phytochemistry ] Shokubutukagaku (in Japanese) 4th edition.Ishiyaku Publishers,Inc.<br>National Institutes of Health : PubChem<br>ECHA : Opinion of the Committee for Risk Assessment (RAC) in EU |                                                    |
| This SDS is according to JIS Z 7253: 2019.                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                    |
| This information in this Safety Data Sheet is designed only as a guidance for handling, and is not to be considered a warranty or quality specification of this product.The information provided is correct to the best of our knowledge, information and belief at the data of its publication and so on. However, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                    |