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SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Bergenin
 Product No. 34
 Supplier Name IWASHIMA YAKUHI Co., Ltd.
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 Tel +81-52-715-5601
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 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 Skin irritation/corrosion Category2
 Serious eye damage/ irritation Category2A
 Pictograms



Signal word
 Hazard statements
 Precautionary statements
 Prevention

Response

Storage
 Disposal
 Other hazards

Warning
 Causes skin irritation
 Causes serious eye irritation
 Wash hands thoroughly after handling. Do not touch eyes.
 Wear protective gloves and eye protection when using this product.
 IF ON SKIN: Wash with plenty of water.
 If skin irritation occurs: Get medical help.
 Take off contaminated clothing and wash it before reuse.
 IF IN EYES: Rinse cautiously with water for at least 15 minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 Not applicable
 Not applicable
 Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture	Substance
Chemical Name	Bergenin
Concentration or concentration range	99.0%
Formula (Molecular weight)	C ₁₄ H ₁₆ O ₉ (328.27)
CAS RN	477-90-7
Notice Through Official	—
Gazettes Reference Number (ENCS)	
Notice Through Official	8-(4)-523、8-(4)-306
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 symptoms persist, call a physician.
Ingestion		Rinse mouth.Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed		Not available.
Protection of first-aiders		Not available.
Special notes for physicians		Not available.
5. FIRE FIGHTING MEASURES		
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.
6. ACCIDENTAL RELEASE MEASURES		
Personal precautions, protective equipment and emergency procedures		Keep unnecessary personnel away. Ensure adequate ventilation.Wear protect clothes while the work.
Environmental precautions		Avoid release to the environment.
Methods and materials for contaminant and cleaning up		Collect spillage appropriately to prevent it from scattering. For waste disposal, see section 13 of the SDS.
Secondary disaster prevention measures		Clean contaminated objects and areas thoroughly to remove residual contamination.
7. HANDLING AND STORAGE		
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. Wear protective equipment. Seal the container after use. After handling, wash hands.
	Contact avoidance	See section 10 of the SDS.
	Hygiene measures	After handling, wash hands. Do not take food, drink and smoking while handling.
Storage	Safe storage conditions	Store in a cool, dark place.Protect from sunlight.
	Safe storage conditions	Glass.Keep container tightly closed.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION		
Administrative Control Levels		No set up.
Occupational Exposure Limits	Japan Society for Occupational Health	No set up.
	ACGIH	No set up.
Engineering controls		Provide the safety shower facility, and hand and eye-wash facility. Use a local exhaust system
Personal protective equipment	Respiratory protection	Dust mask
	Hand protection	Protection gloves
	Eye/face protection	Chemical safety goggles
	Skin and body protection	Lab Coat, long sleeve work clothes
Special note		Protective equipment should be inspected periodically according

to the protective inspection chart.		
9. PHYSICAL AND CHEMICAL PROPERTIES		
Physical state	State	Solid
	Colour	White
	Odor	Odorless
Melting point/freezing point		About 240°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 methanol, slightly soluble in ethanol (99.5), very slightly soluble in water, and practically insoluble in diethyl ether.
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
10. STABILITY AND REACTIVITY		
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
11. TOXICOLOGICAL INFORMATION		
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
12. ECOLOGICAL INFORMATION		
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
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		Not regulated
	UN Number	
	Proper shipping name	
	UN classification (Transport hazard class)	
	Subsidiary hazard class	
	Packing group	
	Marine pollutant	Not applicable
Domestic restriction		
	Marine	Not applicable
	Aviation	Not applicable
	Rail and road	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 Ministry of Health, Labour and Welfare : GHS model SDS information Japanese Pharmacopoeia Inagaki I(1972)[Phytochemistry] Shokubutukagaku (in Japanese) 4th edition.Ishiyaku Publishers,Inc. National Institutes of Health : PubChem 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.		