

Issue date 2023-04-21

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Berberine chloride hydrate
 Product No. 35
 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 restric For research use only, do not use for human or animals.

2. Hazards identification

GHS classification	Not applicable
Pictograms	None
Signal word	Not applicable
Hazard statements	Not applicable
Precautionary statements	
Prevention	Not applicable
Response	Not applicable
Storage	Not applicable
Disposal	Not applicable
Other hazards	Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture	Substance
Chemical Name	Berberine chloride hydrate
Concentration or concentration range	99.00%
Formula (Molecular weight)	C ₂₀ H ₁₈ ClNO ₄ ·xH ₂ O (as Anhydride : 371.81)
CAS RN	141433-60-5
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 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 (CO ₂)
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	Yellow
	Odor	odorless or faint, characteristic odor
		About 201°C (with decomposition)
Melting point/freezing point		No data available
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	sparingly soluble in methanol, slightly soluble in ethanol (95), and very slightly soluble in water.	
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	
1 0 . 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	
1 1 . 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	
1 2 . ECOLOGICAL INFORMATION		
Ecotoxicity	Hazardous to the aquatic environment, acute hazard	No data available
	Hazardous to the aquatic environment, long-term	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.		