

Issue date 2023-04-21

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Palmatine Chloride
 Product No. 26
 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 restriction For research use only, do not use for human or animals.

2. Hazards identification

GHS classification

Health hazards	Acute toxicity - Oral	Category 4
	Skin irritation/corrosion	Category 2
	Serious eye damage/ irritation	Category 2A
	Pictograms	



Signal word	Warning
Hazard statements	Harmful if swallowed Causes skin irritation Causes serious eye irritation

Precautionary statements	
Prevention	Wash hands thoroughly after handling. Do not touch eyes. Do not eat, drink or smoke when using this product. Wear protective gloves and eye protection when using this
Response	IF SWALLOWED: Contact a doctor if you feel unwell. Rinse mouth. 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. If symptoms persist, call a physician.
Storage	Not applicable
Disposal	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	Palmatine Chloride
Concentration or concentration range	99.00%
Formula (Molecular weight)	C ₂₁ H ₂₂ ClNO ₄ (387.86)
CAS RN	10605-02-4
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 (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

Special note		Skin and body protection	Lab Coat, long sleeve work clothes Protective equipment should be inspected periodically according to the protective inspection chart.
9 . PHYSICAL AND CHEMICAL PROPERTIES			
Physical state		State	Solid
		Colour	Yellow-brown
		Odor	Odorless
Melting point/freezing point			About 198°C (with decomposition)
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			No data available
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	UN Number Proper shipping name UN classification (Transport hazard class) Subsidiary hazard class Packing group Marine pollutant	Not regulated Not applicable
Domestic restriction	Marine Aviation Rail and road	Not applicable Not applicable 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.		