

Issue date 2023-04-21

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Cinobufagin
 Product No. 17
 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 2
 Acute toxicity (Dermal) Category 2
 Acute toxicity - Inhalation (Dust) Category 1
 Pictograms



Signal word

Danger

Hazard statements

Fatal if swallowed, in contact with skin, and inhaled.

Precautionary statements

Prevention

Wash hands thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Do not breathe dust.
 Use only outdoors or in a well-ventilated area.
 In case of inadequate ventilation, wear respiratory protection.
 Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing.

Response

If exposed or concerned: Get emergency medical help immediately.
 Rinse mouth.

IF ON SKIN: Wash with plenty of water. If symptoms persist, call a physician.

Storage

Take off contaminated clothing and wash it before reuse.
 Store in a well-ventilated place. Store in a closed container.
 Store locked up.

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

Cinobufagin

Concentration or concentration range

98.00%

Formula (Molecular weight)

C₂₆H₃₄O₆ (442.54)

CAS RN

470-37-1

Notice Through Official Gazettes

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Reference Number

(ENCS)

Notice Through Official Gazettes

-

Reference Number

(ISHL)

PRTR

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Impurities and/or Additives

Not applicable

4. FIRST AID MEASURES		
Inhalation		Get emergency medical help immediately. Remove person to fresh air and keep comfortable for
Skin contact		Get emergency medical help immediately. Wash with plenty of water
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		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.
5. FIRE FIGHTING MEASURES		
Suitable extinguishing media		Water spray (fog), Foam, Extinguishing powder, Carbon dioxide (CO ₂)
Unsuitable extinguishing media		No information
Specific hazards arising from the chemical product		In the event of a fire, highly toxic decomposed products may be generated.
Special extinguishing method		No information
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 protective clothes while the work.
Environmental precautions		Avoid release to the environment.
Methods and materials for containment 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. Store locked up.
	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 (JSA)	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

Special note	Eye/face protection	Chemical safety goggles
	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	White
	Odor	Odorless
Melting point/freezing point		215°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		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		(Oral)LD50 : 144mg/kg (Mouse)
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 contents	Dispose of contents/container in accordance with local/regional/national/international regulations.
1 4 . TRANSPORT INFORMATION	
International restriction	UN Number UN3462 Proper shipping name Toxins, extracted from living sources, solid, n.o.s. (Cinobufagin) UN classification (Transport hazard class) 6.1 Subsidiary hazard class – Packing group II Marine pollutant Not applicable
Domestic restriction	Marine Toxic Substances - Poison Aviation Toxic Substances - Poison 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: 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 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.	