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SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Bufalin
 Product No. 30
 Supplier Name IWASHIMA YAKUHHIN Co., Ltd.
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 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

Health hazards

Acute toxicity - Oral Category 2
 Acute toxicity (Dermal) Category 2
 Acute toxicity - Inhalation Category 1
 (Dusts/Mists)
 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.
 Take off contaminated clothing and wash it before reuse.
 Storage 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	Bufalin
Concentration or concentration range	99.0%
Formula (Molecular weight)	C ₂₄ H ₃₄ O ₄ (386.52)
CAS RN	465-21-4
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		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.
Storage	Safe storage conditions	Do not take food, drink and smoking while handling. Store in a cool, dark place. Protect from sunlight.
	Safe storage conditions	Store locked up. Glass. Keep container tightly closed.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION		
Administrative Control Levels		No set up.
Occupational Exposure Limits	Japan Society for Occupational	No set up.
	ACGIH	No set up.
Engineering controls		Provide the safety shower facility, and hand and eye-wash facility.

Personal protective equipment	Respiratory protection Hand protection Eye/face protection Skin and body protection	Use a local exhaust system Dust mask Protection gloves Chemical safety goggles Lab Coat, long sleeve work clothes Protective equipment should be inspected periodically according to the protective inspection chart.
Special note		
9. PHYSICAL AND CHEMICAL PROPERTIES		
Physical state	State Colour Odor	Solid White No data available
Melting point/freezing point		About 230°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
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	UN Number	UN3462
	Proper shipping name	Toxins, extracted from living sources, solid, n.o.s. (Bufalin)
	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 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.		