

SAFETY DATA SHEET

ACRIDINE ORANGE, Hemi Zinc Chloride

SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

BioShop Canada Inc.
5480 Mainway
Burlington, Ontario L7L 6A4
1-800-234-1179
Emergency Telephone No.: 1-905-466-3832
Chemical Name: Acridine Orange, Hemi Zinc Chloride
Catalog Number: AOR777

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification:
Not hazardous according GHS

Potential Health Effects
The toxicological properties of this substance have not been fully investigated

Target Organs: Respiratory system, eyes, skin
Eyes: causes eye irritation.
Skin: causes skin irritation.
Inhalation: causes irritation. The toxicological properties of this substance have not been fully investigated.
Ingestion: May be harmful if swallowed. May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated
CHRONIC HEALTH HAZARDS: prolonged skin contact may cause dermatitis.

SECTION 3: COMPOSITION/ INGREDIENTS

CAS #	%
10127-02-3	99+
Acridine Orange, Hemi Zinc Chloride	

Molecular Formula: C₁₇H₂₀N₃Cl₂ · 0.5ZnCl₂
Molecular Weight: 369.94

SECTION 4: FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes.
Skin: Flush area immediately with plenty of soap and water while removing contaminated clothing and shoes.
Inhalation: Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. GET MEDICAL ATTENTION.
Ingestion: Wash mouth with water. GET MEDICAL ATTENTION.

SECTION 5: FIRE FIGHTING MEASURES

Flammable: No

Flash Point: N/A
Autoignition Temperature: N/A
Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.
Explosion Data: Not available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.
Leak and Spill Procedures: Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container

SECTION 7: HANDLING AND STORAGE

Handling: Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Minimize dust generation.
Storage Conditions: Room temperature.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: none listed
Use adequate ventilation. AVOID DUST GENERATION.
Wear appropriate protective equipment to prevent eye and skin exposure. Wear appropriate respirator to prevent lung irritation.
Personal Protection: Lab coat, safety goggles, rubber gloves.
Ventilation: Local exhaust systems. Use fume hood
Respiratory protection: use OSHA/MSHA approved respirator.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
Appearance and Odor: orange powder, no odor
Freezing/Melting Point: N/A
Boiling Point: N/A
Specific Gravity: N/A
Vapor Density: N/A
Solubility: soluble
pH: N/A

SECTION 10: STABILITY AND REACTIVITY:

Stability: Stable under normal temperatures and pressure
Conditions to avoid: dust generation
Incompatibility: Strong oxidizing agents and reducing agents
Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide, zinc oxides.
Hazardous Polymerization: Will not occur

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SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:

LD50 / LC50:

Not available

Epidemiology: No data available**Teratogenicity:** No data available**Reproductive Effects:** No data available**Neurotoxicity:** No data available**Mutagenicity:** No data available**Carcinogenicity:** Not listed by ACGIH, IARC, NTP, or OSHA

SECTION 12 ECOLOGICAL INFORMATION

No information found.

SECTION 13 DISPOSAL CONSIDERATION

Waste Disposal: Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

SECTION 14 TRANSPORT INFORMATION

Shipping Information: Not regulated

SECTION 15 REGULATORY INFORMATION

US : TSCA: listed**European/International:** Harmful by inhalation, contact with skin . harmful if swallowed.**Canada:** WHMIS: **D2B**

SECTION 16 ADDITIONAL INFORMATION

Hazard Rating System (estimated)

NFPA	Health	Fire	Reactivity
	2	0	0

Prepared By: M.Kierdelewicz (President)

Date Prepared: Jan 1/2025

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The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.

Observe all federal, provincial and state laws concerning health, safety and pollution.