

MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT IDENTIFICATION

Product Name: CLOSANTEL SODIUM DIHYDRATE

Chemical Formula: $C_{22}H_{13}Cl_2I_2N_2NaO_2 \cdot 2H_2O$

Synonym: *N*-[5-Chloro-4-[(*RS*)-(4-chlorophenyl)cyanomethyl]-2-methylphenyl]-2-hydroxy-3, 5- diiodobenzamide sodium salt dihydrate.

Company Identification: Lasa Supergenerics Limited
C-105, MIDC, Mahad (Dist.- Raigad), Pin : 402302
Telephone No. - +91-22-4970 1092.

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Chemical Name	Percent by Weight
61438-64-0	Closantel sodium dihydrate	98.5 %

SECTION 3. HAZARD IDENTIFICATION

Emergency Overview: Irritating to eyes, respiratory system and skin. Potential Health Effects

Eye: Causes eye irritation. May cause chemical conjunctivitis.

Skin: Causes skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

Inhalation: Causes respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. Can produce delayed pulmonary edema.

Chronic: Effects may be delayed.

SECTION 4. FIRST AID

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupful of milk or water. Wash mouth out with water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

Notes to Physician:

Treat symptomatically and supportively.

SECTION 5. FIRE AND EXPLOSION

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

SECTION 6. ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation

SECTION 7. HANDLING AND STORAGE

Handling:

Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Use with adequate ventilation. Wash clothing before reuse. Avoid breathing dust.

Storage:

In an airtight container, protected from light.

SECTION 8. PERSONAL PROTECTION/EXPOSURE CONTROLS

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid.

Color: Yellow. Odor:

Not available. pH:

Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: Not available

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: Not available.

Molecular Formula: $C_{22}H_{13}Cl_2I_2N_2NaO_2 \cdot 2H_2O$

Molecular Weight: 721

SECTION 10. REACTIVITY/STABILITY

Chemical Stability: Stable under normal temperatures and pressures. Conditions to Avoid: Dust generation.

Incompatibilities with Other Materials: Acids, bases, reducing agents, strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, hydrogen bromide. Hazardous Polymerization: Has not been reported.

SECTION 11. TOXICOLOGICAL INFORMATION

RTECS#:

CAS#: 61438-64-0 unlisted.

Draize test, rabbit, eye: 100 mg/24H Moderate;

Oral, mouse: LD50 = 300 mg/kg; Oral, rabbit: LD50 = 3200 mg/kg; Oral, rat LD50 = 980 mg/kg

Carcinogenicity: Closantel sodium dihydrate not listed by ACGIH, IARC, or NTP.

SECTION 12. ECOLOGICAL INFORMATION

Not available

SECTION 13. DISPOSAL

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14. TRANSPORTATION

IATA

Shipping Name: Not available.

Hazard Class: Not available.

UN Number: Not available.

Packing Group: Not available.

IMO

Shipping Name: Not available.

Hazard Class: Not available.

UN Number: Not available.

Packing Group: Not available.

RID/ADR

Shipping Name: Not available.

Hazard Class: Not available.

UN Number: Not available.

Packing group: Not available

SECTION 15. REGULATORY INFORMATION

European/International Regulations European Labeling in Accordance with EC Directives Hazard Symbols: XI Risk Phrases: R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases: S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection) CAS# 61438-64-0: No information available.

Canada

None of the chemicals in this product are listed on the DSL/NDSL list.

CAS# 61438-64-0 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL TSCA CAS# 61438-64-0 is not listed on the TSCA inventory.

SECTION 16 - ADDITIONAL INFORMATION

This document is intended only as a guide to the appropriate precautionary handling of material by a person trained in chemical handling. The user is responsible for determining the precautions & dangers of this chemical for his or her particular application depending on usage. Adequate protective clothing, including eye / face guards, approved respirators must be used to avoid contact with the material or breathing chemical vapors / fumes. Exposure to this product may cause adverse health effects.

This chemical may interact with other substances. Since the potential uses are so varied, M/s. **Lasa Supergenerics Limited**. cannot warn of all of the potential dangers of use or interaction with chemicals of materials. M/s. **Lasa Supergenerics Limited**. warrants that, the chemical meets the specifications set forth on the test report.

M/s. **Lasa Supergenerics Limited**. Disclaims any other warranties expressed or implied with regard to the product supplied hereunder its merchantability or its fitness for a particular purpose. The user should recognize that, this product can cause severe injury, especially if improperly handled or the known dangers of use are not heeded.

READ ALL PRECAUTIONARY INFORMATIONS.

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