MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT IDENTIFICATION

Product Name: OXYCLOZANIDE
Chemical Formula: C₁₃H₆C₁₅NO₃
Synonym: 2, 3, 5-Trichloro-N-(3, 5-dichloro-2-hydroxyphenyl)-6-hydroxybenzamide
Company Identification: Lasa Supergenerics Limited
C-105, MIDC, Mahad (Dist. - Raigad), Pin: 402309
Telephone No. - +91-22-4970 1092

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2277-92-1</td>
<td>Oxyclozanide</td>
<td>98.0 %</td>
</tr>
</tbody>
</table>

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:
Keep container tightly closed in a dry and well-ventilated place.

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: Pale-creamish.
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: C₁₃H₆C₁₅NO₃
Molecular Weight: 401.46

**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: Nitrogen oxides, carbon monoxide, oxides of sulfur, carbon dioxide.
Hazardous Polymerization: Has not been reported.

SECTION 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**
LD50 Oral - rat - 1,000 mg/kg

**Skin corrosion/irritation**
No data available

**Serious eye damage/eye irritation**
No data available

**Respiratory or skin sensitization**
No data available

**Germ cell mutagenicity**
No data available

**Carcinogenicity**
IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**
No data available

**Specific target organ toxicity - single exposure (GHS)**
No data available

**Specific target organ toxicity - repeated exposure (GHS)**
No data available

**Aspiration hazard**
No data available
Potential health effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation. **Ingestion** Harmful if swallowed. **Skin** May be harmful if absorbed through skin. May cause skin irritation. **Eyes** May cause eye irritation.

**Additional Information**
RTECS: CV8576000

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### SECTION 12. ECOLOGICAL INFORMATION

**Toxicity**
No data available

**Persistence and degradability**
No data available

**Bio accumulative potential**
No data available

**Mobility in soil**
No data available

**PBT and vPvB assessment**
No data available

**Other adverse effects**
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment. Avoid release to the environment.

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### 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

OSHA Hazards
Harmful by ingestion.

DSL Status
This product contains the following components that are not on the Canadian DSL nor NDSL lists. Oxyclozanide
CAS-No. 2277-92-1

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard
Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components
Oxyclozanide
CAS-No. 2277-92-1

New Jersey Right To Know Components
Oxyclozanide
CAS-No. 2277-92-1

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm

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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