

# SAFETY DATA SHEET

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Identity:** Oryx  
 Proprietary blend of organic acids

**Recommended use:** Surface sanitation and disinfection agent.  
 To be added to peracetic (peroxyacetic) acid based products.  
 Washing of this product with clean potable water at the end of process is not mandatory.  
 To be diluted before use.  
 For agricultural use.

**Supplier:** Auryon Industries (Pty) Ltd.  
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 domestically or internationally (Infotrac® 24/7 hotline) - Account number 115120

**2. HAZARDS IDENTIFICATION**
**Statements of Hazard**

- H301 – Toxic if swallowed.
- H315 – Causes skin irritation.
- H318 – Causes serious eye damage.
- H332 – Harmful if inhaled.

**Precautionary Statements**

- P261 – Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 – Wash thoroughly after handling.
- P271 – Use only outdoors or in a well-ventilated area.
- P280 – Wear protective gloves, clothing, eye protection and face protection.
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**GHS Label Elements:**

DANGER!



**Statements of Hazard**  
 Causes serious eye damage and skin irritation  
 Inhalation of mists may cause mucous membranes and respiratory irritation.  
 Swallow may cause burns to the mouth, throat and intestinal tract.

**Precautionary Statements**

Wash thoroughly after handling.

Avoid breathing mist, vapours, or spray.

#### **INDICATIONS FOR IMMEDIATE MEDICAL ATTENTION/SPECIAL TREATMENT**

Immediate medical attention is required for all routes of exposures.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

**IF ON SKIN:** Wash with plenty of water. If skin irritation or rash occurs, get medical advice or attention. Take off contaminated clothing and wash it before reuse.

Dispose of contents and container in accordance with local and federal regulations.

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE or physician if you feel unwell.

**IF INGESTED:** Do not induce vomiting. If conscious, rinse mouth with a small amount of water and give one glass of water. Never give anything by mouth to an unconscious or drowsy person. Immediately call a POISON CENTER or physician.

Wear protective gloves and eye protection.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Component</b>	<b>CAS No.</b>	<b>Amount</b>
Proprietary blend of organic acids	Proprietary	50-70%
Surfactants	Proprietary	0.2-5%
Aqua	177-18-5	<i>quantum sufficit</i> 100%

**The exact concentration and/or specific chemical identity are being withheld as a trade secret.**

### **4. FIRST AID MEASURES**

**Eye:** Immediately flush eyes with plenty of water for several minutes while holding the eyelids apart. Remove contact lenses, if present and easy to do. Get immediate medical attention.

**Skin:** Remove contaminated clothing. Rinse skin with water. Get medical attention if irritation occurs and persists. Launder clothing before reuse.

**Inhalation:** Remove to fresh air. Get medical attention if symptoms of exposure persist.

**Ingestion:** Do not induce vomiting. If conscious, rinse mouth with a small amount of water and give one glass of water. Never give anything by mouth to an unconscious or drowsy person. Get immediate medical attention.

**Most Important Symptoms:** Causes severe eye damage and skin irritation. Inhalation of vapours or mists may cause mucous membranes and respiratory irritation. If swallowed, may cause intestinal irritation and discomfort.

**Indication of immediate medical attention/special treatment:** Immediate medical attention is recommended in the case of eye contact and ingestion.

### **5. FIRE FIGHTING MEASURES**

**Suitable (and Unsuitable) Extinguishing Media:** Use any media that is suitable for the surrounding fire.

**Specific hazards arising from the chemical:** Thermal decomposition may produce oxides of carbon.

**Special Protective Equipment and Precautions for Fire-Fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for all fires involving chemicals. Cool fire exposed containers with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment, and Emergency Procedures:** Evacuate spill area and keep unprotected personnel away. Prevent contact with the eyes, skin and clothing. Ventilate area. Wear appropriate protective clothing.

**Methods and Materials for Containment and Cleaning Up:** Neutralize small spills and residues with dilute base such as sodium carbonate and collect using an inert absorbent material. Place in appropriate containers for disposal. Prevent spill from entering sewers and water courses. Report releases as required by local, state and federal authorities.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Prevent contact with the eyes, skin and clothing. Do not breathe spray or mists. Wear protective clothing and equipment. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.

This is a concentrated product and is meant to be diluted with water with a ratio of 1:400 (Product to water). When diluting, always add acid to cold water while stirring. Never add water to acid. Never use hot water. Adding water to acid will generate heat and cause boiling and spattering. Read and follow label instructions before using this product.

Empty containers retain product residues and contaminants which can be hazardous. Follow all SDS precautions when handling empty containers.

**Conditions for Safe Storage, Including Any Incompatibilities:** Store in a cool, well-ventilated area away from heat, metals and other incompatible materials. Store in a corrosion resistant container with a resistant inner liner.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values (Workplace Exposure Limits):	This information is not available.
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**Engineering Controls:** Use with adequate general or local exhaust ventilation to maintain exposure below occupational exposure limits.

Wear protective gloves, clothing, eye protection and face protection.

**Respiratory Protection:** In operations where exposure limits are exceeded, an approved respirator with a dust/mist filter or a supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

**Skin Protection:** Impervious gloves are required if contact is possible.

**Eye Protection:** Chemical safety goggles and face shield should be worn where splashing is possible.

**Other:** Impervious coveralls, apron and boots are required as needed to prevent skin contact and contamination of personal clothing. A safety shower and eye wash should be available in the immediate work area.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and Odor:** Clear liquid with a characteristic odor.

<b>Physical State:</b> Liquid	<b>Odor:</b> Characteristic
<b>Solubility In Water:</b> Soluble	<b>Initial Boiling Point/Range:</b> Not available
<b>Relative Density:</b> 1.17 g/cm <sup>3</sup>	<b>Vapor Pressure:</b> Not available
<b>Melting/Freezing Point:</b> Not available	<b>Evaporation Rate:</b> Not available

<b>VOC Content:</b> Not available	<b>pH (1% aqueous solution):</b> 2.4
<b>Viscosity:</b> 10.4 mm <sup>2</sup> /sec (20°C)	<b>Octanol/Water Coefficient:</b> Not available
<b>Flashpoint:</b> Not available	<b>Decomposition Temperature:</b> Not available
<b>Flammable Limits: LEL:</b> Not available	<b>Flammability (solid, gas):</b> Not applicable
<b>UEL:</b> Not available	<b>Autoignition Temperature:</b> Not relevant

## 10. STABILITY AND REACTIVITY

**Reactivity:** Not reactive under normal storage, handling and use conditions.

**Chemical Stability:** Stable under normal storage, handling and use conditions.

**Possibility of Hazardous Reactions:** Will react violently with strong bases and water.

**Conditions to Avoid:** Not known.

**Incompatible Materials:** Bases and strong oxidizers.

**Hazardous Decomposition Products:** Thermal decomposition will generate oxides of carbon.

## 11. TOXICOLOGICAL INFORMATION

### HEALTH HAZARDS:

**Eye:** Causes severe damage and burns with pain, tearing, and redness. May cause permanent eye damage, vision impairment, and blurred vision.

**Skin:** May cause irritation. Prolonged contact may cause allergic skin reaction with itching, redness, and hives.

**Ingestion:** Swallowing may cause gastrointestinal burns, irritation and upset.

**Inhalation:** Inhalation of vapors or mists may cause irritation of the nose, throat and upper respiratory tract.

**Chronic:** Prolonged exposure may cause permanent damage to eye, skin and respiratory tract.

**Sensitization:** May cause an allergic skin reaction.

**Carcinogenicity:** None of the components present are listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA or are classified as carcinogens under the GHS.

**Germ Cell Mutagenicity:** Components are not known as germ cell mutagens.

**Reproductive Toxicity:** Components are not known as reproductive toxins.

### Numerical Measures of Toxicity:

Product ATE: Oral LD<sub>50</sub>: >2,000 mg/kg; Dermal LD<sub>50</sub>: >2,000 mg/kg; Inhalation LC<sub>50</sub>: > 2.85mg/L/4hr (max attainable concentration)

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity:

Product ATE: Fish LC<sub>50</sub>: >100 mg/L/96hr; Aquatic Invertebrate EC<sub>50</sub>: >100 mg/L/48hr

### Persistence and Degradability:

Readily biodegradable

### Bioaccumulative Potential:

Potential for bioconcentration in aquatic organisms is low.

### Mobility in Soil:

Very high mobility in soil.

**Other Adverse Effects:** No data available

**13. DISPOSAL CONSIDERATIONS**

Dispose in accordance with all local, state and federal regulations.

**14. TRANSPORT INFORMATION**

**DOT Hazardous Materials Description:**

**Proper Shipping Name:** Not Regulated

**UN Number:** None

**Hazard Class/Packing Group:** None

**Labels Required:** None

**IMDG Shipping Name:** Not Regulated

**IMDG Hazard Class/Packing Group:** None

**IMDG Hazard Labels Required:** None

**IATA Shipping Name:** Not Regulated

**IATA Hazard Class/Packing Group:** None

**IATA Hazard Labels Required:** None

**15. REGULATORY INFORMATION**

**CERCLA 103 Reportable Quantity:** This product has an RQ of 16,667 lbs. (based on the RQ of Organic Proprietary Acid of 5,000 lbs. present at 30%). Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations. For more information, contact Infotrec emergency number or Auryon Industries (Pty) Ltd.

**Hazard Category for Section 311/312:** Refer to Section 2 for OSHA Hazard Classification

**Section 313 Toxic Chemicals:** This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None

**Section 302 Extremely Hazardous Substances (TPQ):** None

**United States TSCA:** All the components are listed.

**16. OTHER INFORMATION**

**NFPA Rating:** Health = 3

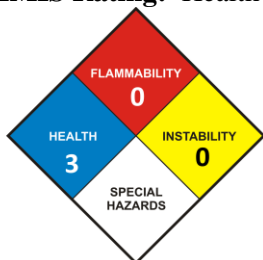
Flammability = 0

Instability = 0

**HMIS Rating:** Health = 3

Flammability = 0

Physical Hazard = 0



**Date of Current Revision:** 01March2023

**Revision Summary:** Amended

**Date of Previous Revision:** N/A

DISCLAIMER

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