Section 1. Chemical Product and Company Information

Product Name: Oxysan 1510 Antimicrobial
Other means of identification: Peracetic Acid, Acetyl Hydroperoxide, Peroxyacetic Acid
Recommended Use: Sanitizer
Restrictions on Use: Reserved for industrial and professional use.
Supplier Information: Biosan LLC.
3 Duplainville Road
Saratoga Springs, NY 12866
(518) 226-4850

Dilution rate: 
Date of issue: 5/20/2015
EPA Registration No.: 

EMERGENCY HEALTH INFORMATION: 1 (800) 424-9300
Outside United States and Canada CALL: +1 (703) 741-5500

Section 2. Hazards Identification

GHS Classification
Oxidizing liquids: Category 3
Acute toxicity (Oral): Category 4
Skin corrosion: Category 1A
Serious eye damage: Category 1

GHS Label Element
Hazard pictograms:

Signal Word: Danger
Hazard Statements: May intensify fire; oxidizer. Harmful if swallowed. Causes severe skin burns and eye damage
Precautionary Statements: 

Prevention: Keep away from heat. Keep/Store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Warning! Do not use together with other products. May release dangerous gases (chlorine).
SAFETY DATA SHEET
Oxysan 1510 Antimicrobial

Response: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 doctor/physician. Wash contaminated clothing before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage: Store locked up.

Disposal: Dispose of contents/container to an approved waste disposal plant.

Other hazards: None Known

Section 3. Composition / Information on Ingredients

Pure substance/mixture: Mixture

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic acid</td>
<td>64-19-7</td>
<td>30 – 60</td>
</tr>
<tr>
<td>Peroxyacetic acid</td>
<td>79-21-0</td>
<td>15 - 16</td>
</tr>
<tr>
<td>Hydrogen peroxide</td>
<td>7722-84-1</td>
<td>9 - 11</td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact: Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

If swallowed: Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

If inhaled: Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

Protection of first-aiders: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician: Treat symptomatically.
See toxicological information (Section 11)

### Section 5. Fire-Fighting Measures

<table>
<thead>
<tr>
<th>Suitable extinguishing media</th>
<th>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Including water and water spray.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsuitable extinguishing media</td>
<td>None known</td>
</tr>
<tr>
<td>Specific hazards during fire fighting</td>
<td>Oxidizer. Contact with other material may cause fire. Oxygen that can initiate or promote combustion.</td>
</tr>
<tr>
<td>Hazardous combustion products</td>
<td>Oxygen</td>
</tr>
<tr>
<td>Special protective equipment for fire-fighters</td>
<td>Use personal protective equipment.</td>
</tr>
<tr>
<td>Specific extinguishing methods</td>
<td>Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.</td>
</tr>
</tbody>
</table>

### Section 6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures**: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions**: Do not allow contact with soil, surface or ground water.

**Methods and materials for containment and cleaning up**: Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.
SAFETY DATA SHEET
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Section 7. Handling and Storage

Advice on safe handling
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Do not ingest. Keep away from fire, sparks and heated surfaces. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Use only with adequate ventilation. Warning! Do not use together with other products. May release dangerous gases (chlorine).

Conditions for safe storage

Storage temperature
-10 °C to 50 °C

Section 8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Form of Exposure</th>
<th>Permissible Concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic acid</td>
<td>64-19-7</td>
<td>TWA</td>
<td>10 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>15 ppm</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>
|                           |         | STEL             | 15 ppm  
|                           |         |                 | 37 mg/m3         | NIOSH REL        |
|                           |         | TWA              | 10 ppm  
|                           |         |                 | 25 mg/m3         | NIOSH REL        |
| Hydrogen peroxide         | 7722-84-1 | TWA             | 1 ppm                     | ACGIH            |
|                           |         | TWA              | 1 ppm                     | NIOSH REL        |
|                           |         | TWA              | 1 ppm  
|                           |         |                 | 1.4 mg/m3        | OSHA Z1          |

Engineering measures: Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Personal protective equipment: Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Eye protection: Safety goggles, Face-shield

Hand protection: Wear the following personal protective equipment: Standard
glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

**Skin protection:** Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

**Respiratory protection:** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

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**Section 9. Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Colorless</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Vinegar-like, Sharp Pungent</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>&lt; 1.0, 100 %</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>96 °C closed cup, Does not sustain combustion.</td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Freezing point</strong></td>
<td>-49°C (-56°F)</td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range</strong></td>
<td>&gt; 110 °C (230°F)</td>
</tr>
<tr>
<td><strong>Evaporation Rate</strong></td>
<td>&gt;1.0; (Butyl acetate = 1)</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Upper explosion limit</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Lower explosion limit</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>22 mm Hg (25°C)</td>
</tr>
<tr>
<td><strong>Relative vapor density</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>1.138</td>
</tr>
<tr>
<td><strong>Water solubility</strong></td>
<td>Completely miscible (100%)</td>
</tr>
<tr>
<td><strong>Solubility in other solvents</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Autoignition temperature</strong></td>
<td>581°F (305°C)</td>
</tr>
<tr>
<td><strong>Thermal decomposition</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Viscosity, kinematic</strong></td>
<td>No data available</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET
Oxysan 1510 Antimicrobial

Explosive properties : No data available
Oxidizing properties : Strong Oxidizer
Molecular weight : No data available
VOC : No data available

Section 10. Stability and Reactivity

Chemical stability : Potential for exothermic hazard
Stable under normal conditions.
Possibility of hazardous reactions : Warning! Do not use together with other products. May release
dangerous gases (chlorine).
Conditions to avoid : Heat, flames and sparks. Elevated temperatures, any sources of
heat, combustibles such as paper and wood and contamination.
For quality purposes, avoid temperatures above 86F. Higher
temperatures will accelerate decomposition resulting in loss of
assay.
Hazardous decomposition products : Decomposition products may include the following materials:
Carbon oxides
Acetic acid

Section 11. Toxicological Information

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact
Potential Health Effects
Eyes : Causes serious eye damage.
Skin : Causes severe skin burns.
Ingestion : Harmful if swallowed. Causes digestive tract burns.
Inhalation : May cause nose, throat, and lung irritation.
Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure
Eye contact : Redness, Pain, Corrosion
Skin contact : Redness, Pain, Corrosion
Ingestion : Corrosion, Abdominal pain
Inhalation : Respiratory irritation, Cough
Toxicity :
Acute oral toxicity : 4 h Acute toxicity estimate : > 40 mg/l
Acute inhalation toxicity : No data available
Acute dermal toxicity : Acute toxicity estimate : 2,221 mg/kg
Skin corrosion/irritation : No data available
Serious eye damage/eye irritation : No data available
Respiratory or skin sensitization : No data available
Carcinogenicity IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Carcinogenicity OSHA : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Carcinogenicity NTP : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Reproductive effects : No data available
Germ cell mutagenicity : No data available
Teratogenicity : No data available
STOT-single exposure : No data available
STOT-repeated exposure : No data available
Aspiration toxicity : No data available

Section 12. Ecological Information

Ecotoxicity

Environmental Effects : Toxic to aquatic life.

Product

Toxicity to fish : No data available
Toxicity to daphnia and other aquatic invertebrates : No data available
Toxicity to algae : No data available

Ingredients

Toxicity to fish : Acetic acid 96 h LC50: 75 mg/l
Peroxyacetic acid 96 h LC50: 0.8 mg/l

Toxicity to daphnia and other aquatic invertebrates : Peroxyacetic acid 48 h EC50: 0.73 mg/l

 Toxic to algae : Peroxyacetic acid 72 h EC50: 0.7 mg/l
Hydrogen peroxide 72 h EC50: 1.38 mg/l

Persistence and degradability : No data available

Bioaccumulative potential : Log Pow -1.25, does not bioaccumulate.
SAFETY DATA SHEET
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Mobility in soil : No data available
Other adverse effects : No data available
- Toxic to aquatic organisms
- Hazard for the environment is limited due to product properties:
Remarks : considerable abiotic and biotic degradability, weak persistence of degradation products.
- Does not bioaccumulate

Section 13. Disposal Considerations

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

RCRA - Resource Conservation and Recovery Authorization Act
Hazardous waste : D002 (Corrosive)

Section 14. Transport Information

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)
UN number : 3109
Description of the goods : Organic peroxide type F, liquid (Peroxyacetic acid)
Class : 5.2 (8)
Packing group : II
Environmentally hazardous : no

Sea transport (IMDG/IMO)
UN number : 3109
Description of the goods : Organic peroxide type F, liquid (Peroxyacetic acid)
Class : 5.2 (8)
Packing group : II
Environmentally hazardous : no
SAFETY DATA SHEET
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Section 15. Regulatory Information

EPA Registration Number : 
EPCRA - Emergency Planning and Community Right-to-Know
CERCLA Reportable Quantity :

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic Acid</td>
<td>64-19-7</td>
<td>5000</td>
<td>15725</td>
</tr>
</tbody>
</table>

SARA 304 Extremely Hazardous Substances Reportable Quantity

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peroxyacetic acid</td>
<td>79-21-0</td>
<td>500</td>
<td>3289</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazards :
- Fire Hazard
- Acute Health Hazard

SARA 302 :
The following components are subject to reporting levels established by SARA Title III, Section 302:
- Peroxyacetic acid 79-21-0 15.0 %

SARA 313 :
The following components are subject to reporting levels established by SARA Title III, Section 313:
- Peroxyacetic acid 79-21-0 15.0 %

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

The ingredients of this product are reported in the following inventories:
- **United States TSCA Inventory**: On TSCA Inventory
- **Canadian Domestic Substances List (DSL)**: All components of this product are on the Canadian DSL.
- **Australia Inventory of Chemical Substances (AICS)**: On the inventory, or in compliance with the inventory
- **New Zealand. Inventory of Chemical Substances**: On the inventory, or in compliance with the inventory
- **Japan. ENCS - Existing and New Chemical Substances Inventory**: On the inventory, or in compliance with the inventory
- **Japan. ENCS - Existing and New Chemical Substances Inventory**: On the inventory, or in compliance with the inventory
- **Japan. ISHL - Inventory of Chemical Substances**: On the inventory, or in compliance with the inventory
- **Korea. Korean Existing Chemicals Inventory (KECI)**: On the inventory, or in compliance with the inventory
- **Philippines Inventory of Chemicals and Chemical Substances (PICCS)**: On the inventory, or in compliance with the inventory
- **China. Inventory of Existing Chemical Substances in China (IECSC)**: On the inventory, or in compliance with the inventory
Section 16. Other Information

HMIS III:

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEALTH</td>
<td>3</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
<td>2</td>
</tr>
<tr>
<td>PHYSICAL HAZARD</td>
<td>2</td>
</tr>
</tbody>
</table>

0 = Not Significant, 1 = Slight
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Issuing date : 5/20/2015
Version : 1.0
Prepared by : rjd

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.