# SAFETY DATA SHEET
according to DENR Administrative order N°2015-09 and GHS

## BioSentry® Iodine Disinfectant

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>BioSentry® Iodine Disinfectant</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product code</strong></td>
<td>D12678097, D12768095</td>
</tr>
</tbody>
</table>

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

<table>
<thead>
<tr>
<th><strong>Product Use</strong></th>
<th>[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC8] Biocidal products (e.g. Disinfectants, pest control);</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Disinfectant.</td>
</tr>
</tbody>
</table>

#### 1.3. Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th><strong>Company name</strong></th>
<th>Neogen Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Address</strong></td>
<td>620 Lesher Place</td>
</tr>
<tr>
<td></td>
<td>Lansing MI 48912</td>
</tr>
<tr>
<td><strong>Web</strong></td>
<td><a href="http://www.neogen.com">www.neogen.com</a></td>
</tr>
<tr>
<td><strong>Telephone number</strong></td>
<td>517-372-9200/800-234-5333</td>
</tr>
<tr>
<td><strong>Email</strong></td>
<td><a href="mailto:SDS@neogen.com">SDS@neogen.com</a></td>
</tr>
</tbody>
</table>

**Further information**

Manufactured By:
Preserve International
944 Nandino Blvd.
Lexington, KY 40511-1205 U.S.A.

Preserve International is a wholly-owned subsidiary of Neogen Corporation.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

| **2.1.2. Classification - GHS** | Skin Corr. 1B: H314; STOT SE 3: H335; Aquatic Chronic 3: H412; |

#### 2.2. Label elements

<table>
<thead>
<tr>
<th><strong>Hazard pictograms</strong></th>
<th>![Hazard pictograms]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Signal Word</strong></td>
<td>Danger</td>
</tr>
<tr>
<td><strong>Hazard Statement</strong></td>
<td>Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. STOT SE 3: H335 - May cause respiratory irritation. Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>
2.3. Other hazards

**Other hazards** None known.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

**EC 1272/2008**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Index No.</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>REACH Registration Number</th>
<th>Conc. (%w/w)</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nonylphenoxypolyethoxy ethanol</td>
<td>127087-87-0</td>
<td>500-315-8</td>
<td>5</td>
<td></td>
<td></td>
<td>Acute Tox. 4: H302;H332; Skin Irrit. 2: H315; Eye Dam. 1: H318; Aquatic Chronic 2: H411; Skin Corr. 1B: H314;</td>
</tr>
<tr>
<td>Phosphoric acid…% (Phosphoric acid)</td>
<td>015-011-00-6</td>
<td>7664-38-2</td>
<td>231-633-2</td>
<td></td>
<td></td>
<td>Acute Tox. 4: H332; Acute Tox. 4: H312; Aquatic Acute 1: H400;</td>
</tr>
<tr>
<td>Iodine († Iodine)</td>
<td>053-001-00-3</td>
<td>7553-56-2</td>
<td>231-442-4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Description**

Included on the Candidate List of Substances of Very High Concern (REACH): [Nonylphenoxypolyethoxy ethanol, CAS No. 127087-87-0].

Concentrations listed are not product specifications.

**Further information**

Full text of Hazard Statements listed in this Section is provided in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**Inhalation**

Move the exposed person to fresh air. Immediate medical attention is required. If unconscious, check for breathing and apply artificial respiration if necessary. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration.

**Eye contact**

Remove the affected person from the source of contamination immediately. Hold eye open and rinse slowly and gently with water for 15-20 minutes. Contact lenses should be removed. Immediate medical attention is required.

**Skin contact**

Remove the affected person from the source of contamination immediately. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Immediate medical attention is required.

**Ingestion**

Rinse mouth thoroughly. Do not induce vomiting unless told to do so by the poison control center or doctor. Probable mucosal damage may contraindicate the use of gastric lavage. Never give anything by mouth to an unconscious person. Immediate medical attention is required.

#### 4.2. Most important symptoms and effects, both acute and delayed

**Inhalation**

Corrosive to the respiratory tract. Causes burns. In severe cases, may cause loss of consciousness. May cause irritation to mucous membranes. May cause dizziness and headache.

**Eye contact**

Risk of serious damage to eyes. Causes severe inflammation and may damage the cornea. Danger of very serious irreversible effects.

**Skin contact**

Corrosive to living tissue. Causes skin burns. Danger of very serious irreversible effects.

**Ingestion**

Corrosive to living tissue. Causes severe burns. Danger of very serious irreversible effects. Ingestion may cause nausea and vomiting.

#### 4.3. Indication of any immediate medical attention and special treatment needed
4.3. Indication of any immediate medical attention and special treatment needed

Remove the affected person from the source of contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. Immediate medical attention is required. If medical advice is needed, have product container or label at hand.

Further information

Refer to product label and/or package insert for additional information.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.

5.2. Special hazards arising from the substance or mixture

Corrosive. Do not breathe vapour or spray mist. Fire will produce dense black smoke.

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not breathe vapour or spray mist. Wear: Self-contained breathing apparatus, Protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

In the case of cleanup following a spill, wear protective clothing and appropriate equipment to prevent exposure of skin and eyes and to prevent ingestion or inhalation. Ensure adequate ventilation of the working area. Keep personnel away from spill. Avoid contact with eyes and skin. Avoid prolonged or repeated exposure. Keep away from incompatible materials.

6.2. Environmental precautions

Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water. Do not flush into surface water. Do not let product contaminate subsoil.

6.3. Methods and material for containment and cleaning up

Absorb with inert, absorbent material. Collect spillage. Transfer to suitable, labelled containers for disposal. Dispose of this material and its container to hazardous or special waste collection point. Clean spillage area thoroughly with plenty of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

6.4. Reference to other sections

See Section(s) 2, 8, and 13 for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Adopt best Manual Handling considerations when handling, carrying and dispensing. Handle and open container with care. Do not breathe vapour or spray mist. Ensure adequate ventilation of the working area. In case of insufficient ventilation, wear suitable respiratory equipment. Causes eye damage and skin damage. Wear chemical protective clothing. Wear goggles or face shield and rubber gloves when handling this product. Wash the outside of gloves before removing them. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Contaminated work clothing should not be allowed out of the workplace. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not eat, drink or smoke in areas where this product is used or stored. Read the entire label and follow all use directions, restrictions, and precautions.

7.2. Conditions for safe storage, including any incompatibilities
BioSentry® Iodine Disinfectant

7.2. Conditions for safe storage, including any incompatibilities

Store in original container in a cool, dry place inaccessible to children and pets. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal. Keep containers closed and away from other chemicals. Do not use or store near heat or open flame. Do not store with incompatible substances or mixtures. Follow label instructions.

7.3. Specific end use(s)

See Section(s) 1.2 for further information.

Further information

Refer to product label and/or package insert for additional information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

<table>
<thead>
<tr>
<th>Substance</th>
<th>ACGIH TLV TWA</th>
<th>ACGIH TLV STEL</th>
<th>OSHA PEL 8hr TWA ppm</th>
<th>OSHA PEL 8hr TWA mg/m³</th>
<th>Skin Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodine (‡ Iodine)</td>
<td></td>
<td>C 0.1 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phosphoric acid…% (Phosphoric acid)</td>
<td>1 mg/m³</td>
<td>3 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Ensure adequate ventilation of the working area. Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects.

8.2.2. Individual protection measures

Eye / face protection

Wear: Approved safety goggles, Face shield.

Skin protection - Handprotection

Wear: Chemical resistant gloves. Wash the outside of gloves before removing them. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Skin protection - Other

After contact with skin, wash immediately with plenty of soap and water. Wear suitable protective clothing, gloves and eye/face protection.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Occupational exposure controls

Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Provide chemical shower. Provide eye wash station. Protect clothing from contact with the product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Avoid contamination of food or feedstuffs.

Further information

Refer to product label for additional PPE requirements and recommendations. Follow label instructions.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Red/Brown</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>VOC (Volatile organic compounds)</td>
<td>No data available</td>
</tr>
</tbody>
</table>

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4. Conditions to avoid

Do not use or store near heat or open flame. Keep away from incompatible materials.

10.5. Incompatible materials

Keep away from strong oxidising agents, soft metals.

10.6. Hazardous decomposition products

Carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met. However, this product does contain
### 11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Substance</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Corrosive to living tissue. Causes burns. Possible risk of irreversible effects.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Causes severe burns. Causes severe inflammation and may damage the cornea. Possible risk of irreversible effects.</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>May cause allergic reactions in susceptible people.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No mutagenic effects reported.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>This product does not contain any hazardous ingredients at or above regulated thresholds. The exact percentage (concentration) of composition has been withheld as a trade secret. Not listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. US State Regulations: New Jersey Right-to-Know Hazardous Substances List: This material contains no listed components. Pennsylvania Right-to-Know Hazardous Substance List: This material contains no listed components. Massachusetts Right-to-Know Toxic or Hazardous Substances List: This material contains no listed components.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>No teratogenic effects reported.</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause oral mucosal irritation.</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>Components(s) may cause damage to human organs based on animal data.</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>No Significant Hazard.</td>
</tr>
<tr>
<td>Repeated or prolonged exposure</td>
<td>Avoid prolonged or repeated exposure. Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.</td>
</tr>
</tbody>
</table>

### 11.1.2. Mixtures

See Section(s) 3 for further information.

### 11.1.3. Hazard Information

See Section(s) 2 and 3 for further information.

### 11.1.4. Toxicological Information

No data available

### 11.1.5. Hazard Class

See Section(s) 2 and 4 for further information.

### 11.1.6. Classification Criteria

Based on the Globally Harmonised System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.

### 11.1.7. Information on likely routes of exposure

Eye contact. Skin contact. Ingestion. Inhalation.

### 11.1.8. Symptoms related to the physical, chemical and toxicological characteristics

See Section(s) 4.2 for further information.

### 11.1.9. Delayed and immediate effects as well as chronic effects from short and long-term exposure

No Significant Hazard.
11.1.9. Delayed and immediate effects as well as chronic effects from short and long-term exposure

See Section(s) 4.2 for further information.

11.1.10. Interactive effects

No data available.

11.1.11. Absence of specific data

<1% of this mixture consists of ingredients of unknown acute toxicity.

11.1.12. Mixture versus substance information

See Section(s) 3 for further information.

11.1.13. Other information

Caution - substance not yet fully tested.

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data is available on this product.

12.3. Bioaccumulative potential

No data is available on this product.

Partition coefficient

No data available on this product.

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12.4. Mobility in soil

No data is available on this product.

12.5. Results of PBT and vPvB assessment

No data is available on this product.

12.6. Other adverse effects

This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of local and national regulations.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of contents/container to an approved hazardous/special waste disposal facility in accordance with local and national regulations. Do not discharge effluent containing this product to sewer systems. Follow label instructions.

Disposal methods

Dispose of contents/container to an approved hazardous/special waste disposal facility in accordance with local and national regulations. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not empty into drains; dispose of this material and its container in a safe way. Do not flush into surface water. Do not let product contaminate subsoil.

Disposal of packaging
### Disposal of packaging

Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain. Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations. Can be recycled if in compliance with local and national regulations.

### Further information

Refer to product label and/or package insert for additional information.

### SECTION 14: Transport information

#### Hazard pictograms

- ![UN1903 Pictogram](image)

#### 14.1. UN number

| UN1903 |

#### 14.2. UN proper shipping name

| DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Phosphoric acid) |

#### 14.3. Transport hazard class(es)

| ADR/RID | 8 |
| Subsidiary risk | - |
| IMDG | 8 |
| Subsidiary risk | - |
| IATA | 8 |
| Subsidiary risk | - |

#### 14.4. Packing group

| Packing group | II |

#### 14.5. Environmental hazards

| Environmental hazards | No |
| Marine pollutant | No |

| ADR/RID |
| Hazard ID | 80 |
| Tunnel Category | (E) |

| IMDG |
| EmS Code | F-A S-B |

| IATA |
| Packing Instruction (Cargo) | 855 |
| Maximum quantity | 30 L |
| Packing Instruction (Passenger) | 851 |
BioSentry® Iodine Disinfectant

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

BioSentry® Iodine Disinfectant

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

--European Union (EU) and the United Kingdom (UK)--.
Authorisation List (Annex XIV of REACH): Endocrine disrupting agent, [Nonylphenoxypolyethoxy ethanol, CAS No. 127087-87-0].
Annex XVII for REACH: Restricted, [Nonylphenoxypolyethoxy ethanol, CAS No. 127087-87-0].
Article 95 of the Biocidal Products Regulation (BPR): [PT4, Iodine (Iodine complex), CAS No. 7553-56-2].

--North America--.
Domestic/Non-Domestic Substances Lists (DSL/NDSL): All ingredients listed or exempt.
Toxic Substances Control Act (TSCA): All ingredients listed or exempt.
Massachusetts Right-to-Know Hazardous Substance List: Phosphoric acid, Iodine (Iodine complex).
New Jersey Worker and Community Right to Know Act: Phosphoric acid, Iodine (Iodine complex).
Pennsylvania Right to Know Law: Phosphoric acid, Iodine (Iodine complex).
Rhode Island Right-to-Know General Law: Phosphoric acid, Iodine (Iodine complex).

**California residents please note**.
WARNING: This product can expose you to chemicals, including nonylphenoxypolyethoxy ethanol, CAS No. 127087-87-0 and 1,4-Dioxane, CAS No. 123-91-1, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Further information

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

FIFRA Signal Word
DANGER.

FIFRA Warning
Keep out of reach of children.
Hazards to humans and domestic animals.
Corrosive. Causes eye damage and skin damage. Do not get in eyes, on skin, or on clothing.
Harmful if swallowed. Wear goggles or face shield and rubber gloves when handling this product.
Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

SECTION 16: Other information

Other information

Acronyms
ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).
CAS No.: Chemical Abstracts Service.
GHS: Globally Harmonized System.
IATA: International Air Transport Association.
ICAO: International Civil Aviation Organisation.
IMDG: International Maritime Dangerous Goods.
LD: Lethal dose.
OEL: Occupational exposure limit.
OSHA: U.S. Occupational Safety and Health Administration.
PEL: Permissible Exposure Limit.
REACH: Registration, Evaluation, Authorisation, and Restriction of Chemicals.
SVHC: Substance of very high concern.
## Other Information

<table>
<thead>
<tr>
<th>US DOT: United States Department of Transportation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC: Volatile Organic Compound.</td>
</tr>
<tr>
<td>WEL: Workplace Exposure Limit.</td>
</tr>
</tbody>
</table>

### Text of Hazard Statements in Section 3

- **Acute Tox. 4: H302+H332** - Harmful if swallowed or if inhaled
- **Skin Irrit. 2: H315** - Causes skin irritation.
- **Eye Dam. 1: H318** - Causes serious eye damage.
- **Aquatic Chronic 2: H411** - Toxic to aquatic life with long lasting effects.
- **Skin Corr. 1B: H314** - Causes severe skin burns and eye damage.
- **Eye Irrit. 2: H319** - Causes serious eye irritation.
- **Acute Tox. 4: H312** - Harmful in contact with skin.
- **Acute Tox. 4: H332** - Harmful if inhaled.
- **Aquatic Acute 1: H400** - Very toxic to aquatic life.

## Further Information

**DISCLAIMER:** The information and recommendations set forth herein ("Information") are presented in good faith and believed to be correct as of the date issued. No representation is made regarding the completeness or accuracy of the Information. Further, because of the many factors that affect the use of this product, the Information is supplied upon the condition that the person(s) receiving it will make their own determination regarding its suitability for their own unique purpose(s), prior to use.

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