



# SAFETY DATA SHEET

according to WHS and ADG requirements

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## BioSentry® Iodine Disinfectant

Revision 2  
Revision date 2020-01-27

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

#### 1.1. Product identifier

Product name	BioSentry® Iodine Disinfectant
Product code	D12678097, D12768095

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

Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC8] Biocidal products (e.g. Disinfectants, pest control);
Description	Disinfectant.

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

Company	Neogen Corporation
Address	620 Leshar Place Lansing MI 48912 USA
Web	www.neogen.com
Telephone	517-372-9200/800-234-5333
Email	SDS@neogen.com

#### 1.4. Emergency telephone number

	24 hours: Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international) Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)
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#### 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.
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### 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;
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#### 2.2. Label elements

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## 2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	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.

## 2.3. Other hazards

Other hazards	None known.
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## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## EC 1272/2008

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

## Description

	Included on the Candidate List of Substances of Very High Concern: [Nonylphenoxypolyethoxy ethanol, CAS No. 127087-87-0].  Concentrations listed are not product specifications.
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## Further information

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

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## 4.1. Description of first aid measures

	anything by mouth to an unconscious person. Immediate medical attention is required.
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## 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

	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.
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## Further information

	Refer to product label and/or package insert for additional information.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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### 5.2. Special hazards arising from the substance or mixture

	Corrosive. Do not breathe vapour or spray mist. Fire will produce dense black smoke.
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### 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.
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## 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.
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### 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.
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### 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.
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### 6.4. Reference to other sections

	See Section(s) 2, 8, and 13 for further information.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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## 7.1. Precautions for safe handling

	<p>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.</p> <p>Read the entire label and follow all use directions, restrictions, and precautions.</p>
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## 7.2. Conditions for safe storage, including any incompatibilities

	<p>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.</p>
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## 7.3. Specific end use(s)

	See Section(s) 1.2 for further information.
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## Further information

	Refer to product label and/or package insert for additional information.
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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Exposure Limit Values

Iodine	<p>TWA ppm: 0.1 STEL ppm: - Advisory Carc Cat: -</p>	<p>TWA mg/m3: 1 STEL mg/m3: -</p>
Phosphoric acid...% (Phosphoric acid)	<p>TWA ppm: - STEL ppm: - Advisory Carc Cat: -</p>	<p>TWA mg/m3: 1 STEL mg/m3: 3</p>

### 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	Wear chemical protective clothing. Do not breathe dust or vapour.
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

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## 8.2. Exposure controls

Respiratory protection Occupational exposure controls	clothing, gloves and eye/face protection.
	In case of insufficient ventilation, wear suitable respiratory equipment.
	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

<b>Appearance</b>	Liquid
<b>Colour</b>	Red/Brown
<b>Odour</b>	Characteristic
<b>Odour threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point</b>	No data available
<b>Freezing Point</b>	No data available
<b>Initial boiling point</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available
<b>Relative density</b>	No data available
<b>Partition coefficient</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	Not applicable.
<b>Oxidising properties</b>	No data available
<b>Solubility</b>	Soluble in water

### 9.2. Other information

<b>VOC (Volatile organic compounds)</b>	No data available
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

	Stable under normal conditions.
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### 10.2. Chemical stability

	Stable under normal conditions.
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### 10.3. Possibility of hazardous reactions

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

<b>Acute toxicity</b>	Based on available data, the classification criteria are not met. However, this product does contain substance(s) that are classified as hazardous. For more information, see Section 3.
<b>Skin corrosion/irritation</b>	Corrosive to living tissue. Causes burns. Possible risk of irreversible effects.
<b>Serious eye damage/irritation</b>	Causes severe burns. Causes severe inflammation and may damage the cornea. Possible risk of irreversible effects.
<b>Respiratory or skin sensitisation</b>	May cause allergic reactions in susceptible people.
<b>Germ cell mutagenicity</b>	No mutagenic effects reported.
<b>Carcinogenicity</b>	Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-123. Not listed in the National Toxicology Program (NTP) 14th Report on Carcinogens. Not listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. Not listed in the OSHA standard 1910.1003 Carcinogens.
<b>Reproductive toxicity</b>	No teratogenic effects reported.
<b>STOT-single exposure</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause oral mucosal irritation.
<b>STOT-repeated exposure</b>	Components(s) may cause damage to human organs based on animal data.
<b>Aspiration hazard</b>	No Significant Hazard.
<b>Repeated or prolonged exposure</b>	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.

#### 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.

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## 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

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

**BioSentry® Iodine Disinfectant** No data available

### 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

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## Disposal methods

container in a safe way. Do not flush into surface water. Do not let product contaminate subsoil.

## 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



### 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)

ADG	8
Subsidiary risk	-
IMDG / GGVSee	8
Subsidiary risk	-
IATA / ICAO / DGR	8
Subsidiary risk	-

### 14.4. Packing group

Packing group	II
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### 14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

### ADG

Hazard ID	80
Tunnel Category	(E)

### IMDG / GGVSee

EmS Code	F-A S-B
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### IATA / ICAO / DGR

Packing Instruction (Cargo)	855
Maximum quantity	30 L



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## IATA / ICAO / DGR

Packing Instruction (Passenger)	851
Maximum quantity	1 L

## SECTION 15: Regulatory information

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

<b>Regulations</b>	<p>This document has been prepared in accordance with the requirements set out in the Work Health and Safety Regulation 2017 under the Work Health and Safety Act 2011.</p>
<b>Chemical Inventories/Right-to-Know Lists:</b>	<p>--International--.</p> <p>Basel Convention (Hazardous Waste): H8.          Chemical Weapons Convention (OPCW): This material contains no reportable components.          Kyoto Protocol Greenhouse Gases: This material contains no reportable components.          Mercosur Agreement: Not applicable.          Montreal Protocol: This material contains no reportable components.          The Rotterdam Convention: This material contains no reportable components.          The Stockholm Convention: This material contains no reportable components.</p> <p>--Asia and the ASEAN Nations--.</p> <p>Catalog of Hazardous Chemicals (China): [2790, Phosphoric acid, CAS No. 7664-38-2], [189, Hydriodic acid solution (Hydrogen iodide), CAS No. 10034-85-2]. Prohibited.          [Nonylphenoxypolyethoxy ethanol, CAS No. 127087-87-0].          Regulation of Minister of Trade of the Republic of Indonesia, Number 75, Year 2014, regarding The Second Amendment of Minister of Trade, Number 44, Year 2009, Regarding Provision, Distribution, and Control of Hazardous Substances: Usable hazardous and toxic material, [Phosphoric acid, CAS No. 7664-38-2].          Chemical Substances Control Law (Japan): Priority Assessment, Class I environmental release, [Nonylphenoxypolyethoxy ethanol, CAS No. 127087-87-0]. Type III monitoring, No. 43          [Nonylphenoxypolyethoxy ethanol, CAS No. 127087-87-0].          Industrial Safety and Health Act, Dangerous Substances (Japan): Labeling/Notification required, [Phosphoric acid, CAS No. 7664-38-2], [Iodine (Iodine complex), CAS No. 7553-56-2].          Poisonous and Deleterious Substances Act (Japan): Deleterious substance, [Iodine (Iodine complex), CAS No. 7553-56-2], [Hydriodic acid solution (Hydrogen iodide), CAS No. 10034-85-2].          Chemical Substances Subject to Permission (Korea): This material contains no reportable components.          Restricted or Prohibited Substances (Korea): Restricted, [06-5-6, Nonylphenoxypolyethoxy ethanol, CAS No. 127087-87-0].          Use and Standards of Exposure of Chemicals Hazardous to Health (USECHH), Regulation 2000 (Malaysia): Schedule I exposure standard, [Phosphoric acid, CAS No. 7664-38-2], CLASS regulation, [Iodine (Iodine complex), CAS No. 7553-56-2].          Philippine Inventory of Chemicals and Chemical Substances (PICCS): Toxic Substances and Hazardous and Nuclear Wastes Control Act (RA6969):, [Nonylphenoxypolyethoxy ethanol, CAS No. 127087-87-0], [Phosphoric acid, CAS No. 7664-38-2], [Iodine (Iodine complex), CAS No. 7553-56-2], [Hydriodic acid solution (Hydrogen iodide), CAS No. 10034-85-2].          Taiwan Toxic and Concerned Chemical Substances Control Act (TCCSCA): This material contains no reportable components.          Hazardous Substances Act (Thailand): This material contains no reportable components.          Law on Chemicals (Vietnam): Annex I, Appendix V, Appendix VII, [Phosphoric acid, CAS No. 7664-38-2], [Hydriodic acid solution (Hydrogen iodide), CAS No. 10034-85-2]. Appendix V, Appendix VI, Appendix VII, [Iodine (Iodine complex), CAS No. 7553-56-2].</p> <p>--Australia and New Zealand--.</p> <p>Australian Dangerous Goods Code: Class 8.</p>

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

Australian Inventory of Chemical Substances (AICS): All ingredients listed or exempt.  
New Zealand Inventory of Chemicals (NZIoC): All ingredients listed or exempt.

--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](http://www.P65Warnings.ca.gov).

### Further information

FIFRA Signal Word FIFRA Warning	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.
	DANGER.
	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. HCS 2012: U.S. Hazard Communication Standard (2012 revision). 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.
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## Other information

Text of Hazard Statements in Section 3	<p>PEL: Permissible Exposure Limit. REACH: Registration, Evaluation, Authorisation, and Restriction of Chemicals. SVHC: Substance of very high concern. US DOT: United States Department of Transportation. VOC: Volatile Organic Compound. WEL: Workplace Exposure Limit.</p>
	<p>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.</p>

## Further information

	<p>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.</p> <p>Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, USAGE OF TRADE, OR RESULTS TO BE OBTAINED BY USE OF THIS PRODUCT are made with respect to this product or use of this product. The product covered is furnished "as is" and only subject to the warranties herein provided, no liability is assumed resulting from the use of this product.</p>
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