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SAFETY DATA SHEET

1. Identification

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
372053	BD E-Z Scrub™ surgical scrub brush impregnated with povidoneiodine, minimum available iodine 1%. Color code brown.	

Other means of identification
SDS number: 088100001713

Recommended use and restriction on use

Recommended use: Not available.
Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name: Becton Dickinson
Address: 9450 South State Street
Sandy, UT 84070 USA
Telephone: 1-801-565-2300 (US 24 hour)
Fax:
Contact Person: Regulatory Affairs

Emergency telephone number: CHEMTREC 1 800 424 9300

CHEMTREC +001-703-527-3887 (International)

2. Hazard(s) identification

Hazard Classification

Health Hazards

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A

Environmental Hazards

Acute hazards to the aquatic environment	Category 3
Chronic hazards to the aquatic environment	Category 3

Label Elements

Hazard Symbol:

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Signal Word: Warning

Hazard Statement:
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention:
P264: Wash thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P273: Avoid release to the environment.

Response:
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P302+P352: IF ON SKIN: Wash with plenty of water/…
P332+P313: If skin irritation occurs: Get medical advice/attention.
P362: Take off contaminated clothing.

Disposal:
P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine		25655-41-8	13%
Triton		9002-93-1	10%
Hydrogen peroxide		7722-84-1	0.105%
Phosphoric acid		7664-38-2	0.0037%
Sodium hydroxide (Na(OH))		1310-73-2	0.0005%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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4. First-aid measures

General information: Causes serious eye irritation. Causes skin irritation.

Ingestion: DO NOT induce vomiting. Get medical attention immediately.

Inhalation: Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.

Skin Contact: Promptly flush contaminated skin with soap or mild detergent and water. Promptly remove clothing if penetrated and flush the skin with water.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: Causes serious eye irritation. Causes skin irritation.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

5. Fire-fighting measures

General Fire Hazards: Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical: Fire or excessive heat may produce hazardous decomposition products.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No unusual fire or explosion hazards noted.

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Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Contact local authorities in case of spillage to drain/aquatic environment. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.
Methods and material for containment and cleaning up:	Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.
Environmental Precautions:	Avoid release to the environment.

7. Handling and storage

Precautions for safe handling:	When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.
Conditions for safe storage, including any incompatibilities:	Store in a cool, dry place. Keep container tightly closed. Keep from contact with oxidizing materials.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Hydrogen peroxide	TWA	1 ppm 1.4 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	1 ppm 1.4 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
	AN ESL	1.4 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL	10 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL	14 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	AN ESL	1 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
Hydrogen peroxide - as H2O2	TWA PEL	1 ppm 1.4 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
Hydrogen peroxide	TWA	1 ppm	US. ACGIH Threshold Limit Values, as amended (12 2010)
	REL	1 ppm 1.4 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)

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	PEL	1 ppm 1.4 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	IDLH	75 ppm	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
Phosphoric acid	STEL	3 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	REL	1 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	TWA	1 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	STEL	3 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	1 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
	STEL	3 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
	ST ESL	10 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	AN ESL	1 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	STEL	3 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	TWA PEL	1 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	TWA	1 mg/m3	US. ACGIH Threshold Limit Values, as amended (12 2010)
	STEL	3 mg/m3	US. ACGIH Threshold Limit Values, as amended (12 2010)
	PEL	1 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	IDLH	1,000 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
Sodium hydroxide (Na(OH))	Ceiling	2 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	Ceiling	2 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
Sodium hydroxide (Na(OH)) - Particulate.	AN ESL	2 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (07 2011)
	ST ESL	20 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (07 2011)
Sodium hydroxide (Na(OH))	Ceiling	2 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	Ceiling	2 mg/m3	US. ACGIH Threshold Limit Values, as amended (12 2010)
	Ceil_Time	2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	PEL	2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	IDLH	10 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)

Appropriate Engineering Controls

No special requirements under ordinary conditions of use and with adequate ventilation.

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Individual protection measures, such as personal protective equipment

General information:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin Protection	
Hand Protection:	Chemical resistant gloves Suitable gloves can be recommended by the glove supplier. Wash hands after contact.
Other:	Wear a lab coat or similar protective clothing.
Respiratory Protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Hygiene measures:	Observe good industrial hygiene practices.

9. Physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Dark red, Brown
Odor:	Mild
Odor threshold:	No data available.
pH:	4
Melting point/freezing point:	Not applicable
Initial boiling point and boiling range:	>= 100 °C
Flash Point:	Not applicable
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	1.05 - 1.09
Solubility(ies)	
Solubility in water:	Completely Soluble

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Solubility (other):	Alcohol: The product is soluble in water.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	350 mm2/s (23 °C)

10. Stability and reactivity

Reactivity:	Product is not reactive under normal conditions and recommended use.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Material is stable under normal conditions.
Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight.
Incompatible Materials:	Water reactive material. Metals. Avoid contact with oxidizers or reducing agents. Avoid contact with acids.
Hazardous Decomposition Products:	Contact with acids liberates toxic gas. Stable; however, may decompose if heated.

11. Toxicological information

Information on likely routes of exposure

Ingestion:	No data available.
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion:	No data available.
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product:	ATEmix: 4,247.77 mg/kg

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Dermal
Product: No data available.

Inhalation
Product: No data available.

Repeated dose toxicity
Product: No data available.

Specified substance(s):

Hydrogen peroxide	LOAEL (Rat(Female, Male), Inhalation): 14.6 mg/m3 Inhalation Experimental result, Key study NOAEL (Mouse(Female, Male), Oral, 90 d): 100 ppm(m) Oral Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation): 2.9 mg/m3 Inhalation Experimental result, Key study
Phosphoric acid	NOAEL (Rat(Female, Male), Oral, <= 12 Months): > 0.75 %(m) Oral Experimental result, Supporting study NOAEL (Rat(Female, Male), Oral, 42 - 54 d): 250 mg/kg Oral Experimental result, Key study

Skin Corrosion/Irritation
Product: No data available.

Specified substance(s):

Phosphoric acid	in vivo (Rabbit): Corrosive Experimental result, Key study
Sodium hydroxide (Na(OH))	in vivo (Rabbit): Irritating Experimental result, Weight of Evidence study in vivo (Rabbit): Slightly irritating Experimental result, Weight of Evidence study

Serious Eye Damage/Eye Irritation
Product: No data available.

Specified substance(s):

Phosphoric acid	Irritating Severely Irritating
Sodium hydroxide (Na(OH))	in vivo (Rabbit, 1 d): Mild irritant OECD GHS in vivo (Rabbit, 2 d): Mild irritant OECD GHS in vivo (Rabbit, 3 d): Mild irritant OECD GHS in vivo (Rabbit, 4 d): Mild irritant OECD GHS

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Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

Hydrogen peroxide	Skin sensitization: (Human): Non sensitising Skin sensitization:, in vivo (Guinea pig): Non sensitising

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

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Fish

Product:	No data available.
Specified substance(s):	
2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine	LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 15 min): 1,562 - 1,722 mg/l Mortality LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 15 min): 1,431 - 1,531 mg/l Mortality LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 15 min): 1,535 - 1,668 mg/l Mortality LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 1 h): 990 - 1,113 mg/l Mortality LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 15 min): > 2,000 mg/l Mortality
Hydrogen peroxide	NOAEL (Pimephales promelas, 96 h): 5 mg/l Experimental result, Key study LC 50 (Pimephales promelas, 96 h): 16.4 mg/l Experimental result, Key study
Phosphoric acid	LC 50 (Bluegill (Lepomis macrochirus), 96 h): 75.1 mg/l 96h median lethal pH to bluegill sunfish: 3-3.25 NOAEL (Oryzias latipes, 96 h): 42 mg/l Experimental result, Supporting study LC 50 (Oryzias latipes, 96 h): 75.1 mg/l Experimental result, Supporting study LC 100 (Oryzias latipes, 96 h): 120 mg/l Experimental result, Supporting study
Sodium hydroxide (Na(OH))	LC 50 (Western mosquitofish (Gambusia affinis), 48 h): 125 mg/l Mortality LC 50 (Goldfish (Carassius auratus), 24 h): 160 mg/l Mortality LC 50 (Bony fish superclass (Osteichthyes), 48 h): 33 - 100 mg/l Mortality LC 50 (Western mosquitofish (Gambusia affinis), 96 h): 125 mg/l Mortality LC 50 (Guppy (Poecilia reticulata), 24 h): 145 mg/l Mortality

Aquatic Invertebrates

Product:	No data available.
Specified substance(s):	
2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine	LC 50 (Asiatic clam (Corbicula manilensis), 96 h): > 30,000 mg/l Mortality LC 50 (Northern quahog or hard clam (Mercenaria mercenaria), 12 d): 34.94 mg/l Mortality
Hydrogen peroxide	EC 50 (Physa sp., 96 h): 17.7 mg/l Not specified, Supporting study LC 100 (Lepeophtheirus salmonis, 20 min): 1,250 mg/l Not specified, Supporting study EC 100 (Dreissena polymorpha, 672 h): 20 mg/l Not specified, Supporting study NOAEL (Daphnia pulex, 48 h): 1 mg/l Experimental result, Key study
Phosphoric acid	EC 50 (Water flea (Daphnia magna), 48 h): > 100 mg/l NOAEL (Daphnia magna, 24 h): 81 mg/l Experimental result, Supporting study

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	EC 50 (Daphnia magna, 48 h): > 100 mg/l Experimental result, Key study EC 50 (Daphnia magna, 48 h): > 376 mg/l Experimental result, Supporting study NOAEL (Daphnia magna, 48 h): 81 mg/l Experimental result, Supporting study
Sodium hydroxide (Na(OH))	LOAEL (Daphnia magna): 40 - 240 mg/l Experimental result, Supporting study LC 50 (Ophryotrocha diadema, 48 h): 33 - 100 mg/l Experimental result, Supporting study LC 50 (Saltwater Shrimp, 48 h): 30 - 100 mg/l Experimental result, Supporting study LC (Bulinus truncatus, 96 h): 150 mg/l Experimental result, Supporting study LD (Freshwater insect larvae): 125 - 1,000 mg/l Not specified, Supporting study

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.

Aquatic Invertebrates

Product:	No data available.
Specified substance(s):	
Hydrogen peroxide	NOAEL (Daphnia magna, 21 d): 0.63 mg/l Experimental result, Key study LOAEL (Daphnia magna, 21 d): 1.25 mg/l Experimental result, Key study

Toxicity to Aquatic Plants

Product:	No data available.
Specified substance(s):	
Phosphoric acid	EC 50 (Green algae (Scenedesmus subspicatus)): > 100 mg/l NOEC (Green algae (Scenedesmus subspicatus)): 100 mg/l

Persistence and Degradability

Biodegradation

Product:	No data available.
Specified substance(s):	
Hydrogen peroxide	> 99 % (30 min) Detected in water. Experimental result, Key study 80 - 99 % (30 min) Detected in water. Experimental result, Supporting study 97 % Detected in water. Experimental result, Supporting study 60 % Detected in water. Experimental result, Supporting study

BOD/COD Ratio

Product:	No data available.

Bioaccumulative potential

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Bioconcentration Factor (BCF)
Product: No data available.

Partition Coefficient n-octanol / water (log Kow)
Product: Log Kow: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine	No data available.
Triton	No data available.
Hydrogen peroxide	No data available.
Phosphoric acid	No data available.
Sodium hydroxide (Na(OH))	No data available.

Other adverse effects: None known.

13. Disposal considerations

General information: This material and its container must be disposed of as hazardous waste. Dispose of waste and residues in accordance with local authority requirements.

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging: No data available.

14. Transport information

DOTUN Number:	Not regulated.
UN Proper Shipping Name:	Not regulated.
Transport Hazard Class(es)	
Class:	Not regulated.
Label(s):	Not regulated.
Packing Group:	Not regulated.
Marine Pollutant:	Not regulated.
Limited quantity	Not regulated.
Excepted quantity	Not regulated.

Special precautions for user: Not regulated.

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IMDG

UN Number:	Not regulated.
UN Proper Shipping Name:	Not regulated.
Transport Hazard Class(es)	
Class:	Not regulated.
Subsidiary risk:	Not regulated.
EmS No.:	Not regulated.
Packing Group:	Not regulated.
Environmental Hazards	
Marine Pollutant:	Not regulated.
Special precautions for user:	Not regulated.

IATA

UN Number:	Not regulated.
Proper Shipping Name:	Not regulated.
Transport Hazard Class(es):	
Class:	Not regulated.
Subsidiary risk:	Not regulated.
Packing Group:	Not regulated.
Environmental Hazards	
Marine pollutant:	Not regulated.
Special precautions for user:	Not regulated.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Phosphoric acid, sodium salt (1:2)	5000 lbs.
Phosphoric acid	5000 lbs.
Sodium hydroxide (Na(OH))	1000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate (Acute) Health Hazards
Skin Corrosion or Irritation
Serious eye damage or eye irritation

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SARA 302 Extremely Hazardous Substance

Chemical Identity	Reportable quantity	Threshold Planning Quantity
Hydrogen peroxide	1000 lbs.	1000 lbs.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Hydrogen peroxide	500lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

Chemical Identity	Reportable quantity
Phosphoric acid, sodium salt (1:2)	Reportable quantity: 5000 lbs.
Phosphoric acid	Reportable quantity: 5000 lbs.
Sodium hydroxide (Na(OH))	Reportable quantity: 1000 lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity
Hydrogen peroxide

US. Massachusetts RTK - Substance List

Chemical Identity
Hydrogen peroxide

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

16.Other information, including date of preparation or last revision

Issue Date: 10/24/2019

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Version #:	6.1
Revision Information:	
Source of information:	European Chemicals Agency (ECHA): Information on Chemicals.
Further Information:	No data available.
Disclaimer:	Disclaimer: The information contained herein has been obtained from various sources and is believed to be correct as of the date issued. However, neither BD nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability for a particular use of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. BD provides SDS in electronic form so the information may be more easily accessed. Due to the possibility of errors during transmission, BD makes no representations as to the completeness or accuracy of the information.