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Becton, Dickinson and Company BD, Franklin Lakes, NJ 07417 USA www.bd.com

SAFETY DATA SHEET

1. Identification

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
371163	BD E-Z Scrub™ surgical scrub brush impregnated with 3% chloroxylenol(PCMX).	

Other means of identification

SDS number: 088100001711

Recommended use and restriction on use

Recommended use: Skin Antiseptic Restrictions on use: None 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

Serious Eye Damage/Eye Irritation Category 2A Skin sensitizer Category 1

Environmental Hazards

Acute hazards to the aquatic Category 2

environment

Label Elements

Hazard Symbol:

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Signal Word: Warning

Hazard Statement: H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H401: Toxic to aquatic life.

Precautionary Statements

Prevention: P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P272: Contaminated work clothing should not be allowed out of the

workplace.

P280: Wear protective gloves/protective clothing/eye protection/face

protection.

P273: Avoid release to the environment.

Response: P302+P352: IF ON SKIN: Wash with plenty of water.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P363: Wash contaminated clothing before reuse.

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 (%)*
Phenol, 4-chloro-3,5-dimethyl-		88-04-0	3.3%

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

4. First-aid measures

General information: If medical advice is needed, have product container or label at hand. Get

medical attention if symptoms occur. Causes skin and eye irritation. May

cause an allergic skin reaction.

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Ingestion: If swallowed, rinse mouth with water (only if the person is conscious). Do

NOT induce vomiting. Get medical attention immediately.

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

position. Get medical attention if symptoms persist.

Skin Contact: Wash off promptly and flush contaminated skin with water. Promptly

remove clothing if soaked through and flush skin with water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.

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

remove contact lenses. Get medical attention promptly if symptoms occur

after washing.

Most important symptoms/effects, acute and delayed

Symptoms: Symptoms may be delayed.

Hazards: Causes skin and eye irritation. May cause an allergic skin reaction.

Indication of immediate medical attention and special treatment needed

Treatment: Wash off promptly and flush contaminated skin with water. Promptly

remove clothing if soaked through and flush skin with water. If in eyes, hold

eyes open, flood with water for at least 15 minutes and see a doctor.

5. Fire-fighting measures

General Fire Hazards: Wear self-contained breathing apparatus and protective clothing. 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:

Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

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:

Wear self-contained breathing apparatus and protective clothing. 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: See Section 8 of the SDS for Personal Protective Equipment. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Contact local authorities in case of spillage to drain/aquatic environment.

Methods and material for containment and cleaning up:

Stop leak if possible without any risk. 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:

Eye wash facilities and emergency shower must be available when handling this product. Do not get in eyes, on skin, on clothing. Wash promptly with soap and water if skin becomes contaminated. 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 at room temperature (20-25°C). Avoid excessive heat (40°C). Store isolated from oxidizers, ignition sources, and explosives. Consult local fire codes for additional storage information. Store separated from: Oxidizing material. Store in tightly closed original container in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

ecupational Exposure Emits					
Chemical Identity	Туре	Exposure Limit Values		Source	
Hydrochloric acid	Ceiling	5 ppm	7 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)	
	Ceiling	5 ppm	7 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)	
	ST ESL		130 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)	
	AN ESL		5.7 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)	
	AN ESL		8.4 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)	
	ST ESL		190 µg/m3	US. Texas. Effects Screening Levels (Texas	

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				Commission on Environmental Quality), as amended (12 2010)
	Ceiling	5 ppm	7 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	Ceiling	2 ppm		US. ACGIH Threshold Limit Values, as amended (12 2010)
	Ceil_Time	5 ppm	7 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	Ceiling	5 ppm	7 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	IDLH	50 ppm		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)
2-Propanol	TWA	400 ppm	980 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	STEL	500 ppm	1,225 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	400 ppm	980 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	500 ppm	1,225 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL		200 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL		2,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	AN ESL		492 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL		4,920 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	TWA PEL	400 ppm	980 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)
	STEL	500 ppm	1,225 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)
	TWA	200 ppm		US. ACGIH Threshold Limit Values, as amended (12 2010)

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	STEL	400 ppm		US. ACGIH Threshold Limit Values, as
	V			amended (12 2010)
	STEL	500 ppm	1,225 mg/m3	US. NIOSH: Pocket Guide to Chemical
				Hazards, as amended (2005)
	REL	400 ppm	980 mg/m3	US. NIOSH: Pocket Guide to Chemical
				Hazards, as amended (2005)
	PEL	400 ppm	980 mg/m3	US. OSHA Table Z-1 Limits for Air
				Contaminants (29 CFR 1910.1000), as
				amended (02 2006)
	LEL		2.0 %	US. NIOSH. Immediately Dangerous to Life or
				Health (IDLH) Values, as amended (10 2017)
	IDLH	2,000 ppm		US. NIOSH. Immediately Dangerous to Life or
				Health (IDLH) Values, as amended (10 2017)
Cellulose - Respirable	TWA		5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000),
fraction.				as amended (1989)
Cellulose - Total dust.	TWA		15 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000),
				as amended (1989)
Cellulose - Respirable	TWA	5 mg/m3 US. Tennessee. OELs. Occupational Exposure		
fraction.		Limits, Table Z1A, as amended (06 2008)		
Cellulose - Total dust.	TWA		15 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
Cellulose - Particulate.	ST ESL		50 μg/m3	US. Texas. Effects Screening Levels (Texas
Condicos i articulate.	0.202		оо рулпо	Commission on Environmental Quality), as
				amended (12 2010)
	AN ESL		5 μg/m3	US. Texas. Effects Screening Levels (Texas
	AN LOL		10	Commission on Environmental Quality), as
				amended (12 2010)
Cellulose	TWA		10 mg/m3	US. ACGIH Threshold Limit Values, as
			· ·	amended (12 2010)
Cellulose - Respirable.	REL		5 mg/m3	US. NIOSH: Pocket Guide to Chemical
·			· ·	Hazards, as amended (2005)
Cellulose - Total	REL		10 mg/m3	US. NIOSH: Pocket Guide to Chemical
			ŭ	Hazards, as amended (2005)
Cellulose - Respirable	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air
fraction.			•	Contaminants (29 CFR 1910.1000), as
				amended (02 2006)
Cellulose - Total dust.	PEL		15 mg/m3	US. OSHA Table Z-1 Limits for Air
			•	Contaminants (29 CFR 1910.1000), as
				amended (02 2006)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
2-Propanol (acetone:	40 mg/l (Urine)	ACGIH BEI (03 2013)
Sampling time: End of shift at		
end of work week.)		

Appropriate Engineering Controls

Adequate ventilation should be provided whenever the material is heated or mists are generated. Provide eyewash station and safety shower.

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 to remove contaminants. Discard contaminated

footwear that cannot be cleaned.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection

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Hand Protection: Nitrile gloves Use suitable protective gloves if risk of skin contact.

Other: Wear appropriate clothing to prevent repeated or prolonged skin contact.

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: Do not eat, drink or smoke when using the product. Wash promptly if skin

becomes contaminated. Wash at the end of each work shift and before

eating, smoking and using the toilet. Avoid contact with skin.

9. Physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Milky white
Odor: Characteristic
Odor threshold: No data available.

pH: 4.5
Melting point/freezing point: 32 °F
Initial boiling point and boiling range: 212 °F

Flash Point:

Evaporation rate:

Flammability (solid, gas):

Not applicable

No data available.

No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

Explosive limit - lower (%):

No data available.

Vapor pressure: 23 kPa

Vapor density:No data available.Relative density:Not determined.

Solubility(ies)

Solubility in water: Soluble

Solubility (other): The product is soluble in water.

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature: Product is not self-igniting.

Decomposition temperature:No data available. **Viscosity:**15,000 mm2/s (23 °C)

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10. Stability and reactivity

Reactivity: Product is not reactive under normal conditions and recommended use.

Chemical Stability: No data available.

Possibility of hazardous

reactions:

None under normal conditions.

Conditions to avoid: Avoid exposure to high temperatures or direct sunlight.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition

Products:

By heating and fire, harmful vapors/gases may be formed.

11. Toxicological information

General information: May cause allergic skin reaction based on human experience. Irritating.

Information on likely routes of exposure

Ingestion: Ingestion may cause irritation and malaise.

Inhalation: Under normal conditions of intended use, this material is not expected to be

an inhalation hazard.

Skin Contact: Prolonged or repeated contact may cause skin sensitization in susceptible

individuals. Causes skin irritation.

Eye contact: Irritating to eyes.

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: 12,499.24 mg/kg

Dermal

Product: No data available.

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Inhalation

Product: No data available.

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: Causes skin irritation.

Serious Eye Damage/Eye Irritation

Product: No data available.

Respiratory or Skin Sensitization

Product: Skin sensitizer

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

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Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Phenol, 4-chloro-3,5- LC 50 (Oncorhynchus mykiss, 96 h): 0.36 mg/l

dimethyl-

LC 50 (Guppy (Poecilia reticulata), 24 h): 1.64 mg/l Mortality

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Phenol, 4-chloro-3,5- EC 50 (Daphnia magna, 48 h): 7.7 mg/l

dimethyl-

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

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

Phenol, 4-chloro-3,5-

dimethyl-

No data available.

Other adverse effects: No data available.

13. Disposal considerations

General information: Dispose of waste and residues in accordance with local authority

requirements.

Disposal instructions: Must not be disposed of with solid waste. Dispose of material in accordance

with federal (40 CFR 261.3), state and local requirements. RCRA

Hazardous Waste - D039 (product contains <0.012% Tetrachloroethylene). Discharge, treatment, or disposal may be subject to national, state, or local laws. Since emptied containers retain product residue, follow label warnings

even after container is emptied.

Contaminated Packaging: 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. Water, if necessary with cleansing

agents.

14. Transport information

DOTUN Number: Not regulated. UN Proper Shipping Name: Not regulated.

Transport Hazard Class(es)

Not regulated. Class: Label(s): Not regulated. Packing Group: Not regulated. Marine Pollutant: Not regulated. Not regulated. Limited quantity **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):

<u>Chemical Identity</u> <u>Reportable quantity</u>

Hydrochloric acid 5000 lbs. Sodium hydroxide 1000 lbs.

(Na(OH))

2-Propanol 100 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards Respiratory or Skin Sensitization

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SARA 302 Extremely Hazardous Substance

Reportable

Chemical Identity quantity Threshold Planning Quantity

Hydrochloric acid 5000 lbs. 500 lbs.

SARA 304 Emergency Release Notification

<u>Chemical Identity</u> <u>Reportable quantity</u>

Hydrochloric acid 5000 lbs. Sodium hydroxide 1000 lbs.

(Na(OH))

2-Propanol 100 lbs.

SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity

Hydrochloric acid 500lbs
Phenol, 4-chloro-3,5- 10000 lbs

dimethyl-

Sodium hydroxide 10000 lbs

(Na(OH))

2-Propanol 10000 lbs Cellulose 10000 lbs

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

Hydrochloric acid Reportable quantity: 5000 lbs. Sodium hydroxide Reportable quantity: 1000 lbs.

(Na(OH))

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

Chemical Identity Reportable quantity

Hydrochloric acid 15000 lbs Hydrochloric acid 5000 lbs

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

1,2-PROPANEDIOL

US. Massachusetts RTK - Substance List

Chemical Identity

Hydrochloric acid

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US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

1,2-PROPANEDIOL

US. Rhode Island RTK

Chemical Identity

1.2-PROPANEDIOL

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

Issue Date: 10/23/2019

Version #: 3.1

Revision Information:

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.

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