

Page 1/11

Date Prepared: 03/22/2017

Reviewed On: 03/22/2017

·F	Product Identifier:
٠F	Product Name: <u>E-Z Scrub 4% CHG</u>
	Catalog Number: 371073
·	Application of the substance / the mixture Skin Antiseptic.
٠Ľ	Details of the supplier of the safety data sheet
٠٨	Nanufacturer/Supplier:
	Becton Dickinson (BD)
	0450 South State Street
	Sandy, UT 84070
	3D Diagnostic Systems
	' Loveton Circle
	Sparks, MD 21152
	Telephone: (410) 771 - 0100 or (800) 638 – 8663
	Email Address: Technical_Services@bd.com
	nformation Department: Technical Service
	Emergency telephone number:
	-801-565-2300 (US 24 hour) +001 801-565-2300 (International 24 hour)
	n case of a chemical emergency, spill, fire, exposure, or accident contact Chemtrec: 800-
	124-9300 or +001 703-527-3887 (International).
	n case of a chemical emergency, spill, fire, exposure, or accident, contact BD Diagnostic Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

$\land$	of the substance or mixture and crossbones	
Acute Tox. 3	H301 Toxic if swallowed.	
Acute Tox. 3	H311 Toxic in contact with skin.	
Carc. 2	H351 Suspected of causing cancer.	
	onment	
Aquatic Acute	1 H400 Very toxic to aquatic life.	
Label element GHS label elei		



Page 2/11

Date Prepared: 03/22/2017

Product Name: E-Z Scrub 4% CHG

Reviewed On: 03/22/2017

(Contd. of page 1) Hazard pictograms GHS06 GHS08 GHS09 Signal word Danger Hazard-determining components of labeling: chlorhexidine gluconate 2.2'-iminodiethanol Hazard statements H301+H311 Toxic if swallowed or in contact with skin. H351 Suspected of causing cancer. H400 Very toxic to aquatic life. Precautionary statements Wear protective gloves/protective clothing/eye protection/face protection. P280 P273 Avoid release to the environment. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P201 Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. P202 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Specific treatment (see on this label). P321 P312 Call a POISON CENTER/doctor if you feel unwell. P308+P313 IF exposed or concerned: Get medical advice/attention. P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of water. P391 Collect spillage. P361+P364 Take off immediately all contaminated clothing and wash it before reuse. P405 Store locked up. Dispose of contents/container in accordance with local/regional/national/ P501 international regulations. Information pertaining to particular dangers for man and environment CHG may cause permanent damage / deafness when instilled in the middle ear May cause permanent damage if permitted to enter and remain in the ears or eyes for a long period of time · NFPA ratings (scale 0-4) Health = 1 Flammability = 0Reactivity = 0 (Contd. on page 3) US



(Contd. of page 2)

Date Prepared: 03/22/2017

Reviewed On: 03/22/2017

Product Name: E-Z Scrub 4% CHG

HMIS ratings (scale 0-4)

HEALTH 1 Health = 1 FIRE

Flammability = 0 REACTIVITY | Reactivity = 0

- Other hazards
- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

### 3 Composition/information on ingredients

· Chemical characterization: Mixture

· Description: Mixture consisting of the following components.

· Dangerous Compo	nents:	
	chlorhexidine gluconate	4.34%
EINECS: 242-354-0	Acute Tox. 2, H300; Acute Tox. 1, H310; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 111-42-2	2,2'-iminodiethanol	3.28%
EINECS: 203-868-0	Carc. 2, H351; STOT RE 2, H373; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315	
· Additional informat	tion Risk phrases refer to section 15.	····

### 4 First-aid measures

- Description of first aid measures
- · General information No special measures required.
- · After inhalation
- Seek medical treatment in case of complaints.
- Overexposure may cause headache, fatigue, dizziness, loss of coordination, and unconsciousness. Vapor has anesthetic properties.

#### After skin contact

Immediately rinse with water.

Seek medical treatment.

· After eye contact

Rinse opened eye for 15 minutes under running water. Then consult a doctor.

- After swallowing
- Harmful if swallowed
- Wash out mouth with water. Treat with gastric lavage using milk, egg white, or mild soap. Seek medical attention.
- Information for doctor
- Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 4)

US



Page 4/11

Date Prepared: 03/22/2017

Reviewed On: 03/22/2017

### Product Name: E-Z Scrub 4% CHG

#### (Contd. of page 3) Indication of any immediate medical attention and special treatment needed No further relevant information available.

### 5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents Water Foam Fire-extinguishing powder Carbon dioxide
- Special hazards arising from the substance or mixture
   Carbon dioxide, carbon monoxide, hydrogen chloride gas, nitrogen oxides, ammonia.
   Advice for firefighters
- Protective equipment:
- Wear self-contained respiratory protective device. Wear fully protective suit.

### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required. · Environmental precautions: Wipe up with damp sponge or mop.

- Methods and material for containment and cleaning up: No special measures required.
- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

### 7 Handling and storage

- · Handling
- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and receptacles: Store at room temperature (20 - 25  $^{\circ}$ C) or (68 - 77  $^{\circ}$ F) Avoid excessive heat (above 40  $^{\circ}$ C or 104  $^{\circ}$ F)
- Information about storage in one common storage facility: Store away from oxidizing agents.

(Contd. on page 5)

JS -



Date Prepared: 03/22/2017

Reviewed On: 03/22/2017

Product Name: E-Z Scrub 4% CHG

- *Further information about storage conditions:* Store in cool, dry conditions in well sealed containers.
- Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see Section 7.
- · Control parameters
- **Components with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal Protective Equipment
- General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed.
- Breathing equipment: Not required.
- **Protection of hands:** Gloves are not required for normal conditions of use, Use gloves for spill cleanup.
- Eye protection: Safety glasses
- · Body protection: Protective work clothing (lab coat).

<ul> <li>Information on basic physical and</li> <li>General Information</li> </ul>	d chemical properties	
Appearance:		
Form:	Liquid	
Color:	Clear	
	Pink	
	Red	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	6.0 - 7.5	
Change in condition	Undetermined	
Melting point/Melting range:	Similiar to water.	
Boiling point/Boiling range:	Similiar to water.	
Flash point:	Not applicable	
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(Contd. of page 4)

Page 5/11



Date Prepared: 03/22/2017

Reviewed On: 03/22/2017

#### Product Name: E-Z Scrub 4% CHG

	(Contd. of pag
· Flammability (solid, gaseous)	Not applicable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density:	
Relative density	1.06 g/cm³ (8.846 lbs/gal)
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Soluble
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity:	
dynamic:	50-500 CPS
kinematic:	Not determined.
Other information	No further relevant information available,

### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- Incompatible materials:
- Incompatible material: strong oxidizers.
- Anionic Compounds.
- Hazardous decomposition products: Carbon monoxide (CO) and carbon dioxide (CO2) Nitrogen oxides (NOx) Ammonia (NH4)

(Contd. on page 7)

US



(Contd. of page 6)

Date Prepared: 03/22/2017

Reviewed On: 03/22/2017

Product Name: E-Z Scrub 4% CHG

Hydrogen chloride (HCl) gas

### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: May cause irritation to skin and mucous membranes.
- on the eye: Strong irritant with the danger of severe eye injury.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

The product is not subject to OSHA classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (Inte	rnational Agency for Research on Cancer)	
111-42-2	2,2'-iminodiethanol	2B
7647-01-0	hydrochloric acid	3
123-91-1	1,4-dioxane	2B
75-21-8	ethylene oxide	1
• NTP (Natio	onal Toxicology Program)	
None of the	e ingredients is listed.	
· OSHA-Ca	(Occupational Safety & Health Administration)	

75-21-8 ethylene oxide

### 12 Ecological information

#### · Toxicity

Aquatic toxicity:

Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment. Low toxicity to sewage microorganisms.

LC-50: Zebra danio (Danio rerio) 2.08 mg/L (96 hour)

Persistence and degradability No further relevant information available.

- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.

(Contd. on page 8)

— US



Page 8/11

### Date Prepared: 03/22/2017

Reviewed On: 03/22/2017

#### Product Name: E-Z Scrub 4% CHG

(Contd. of page 7)

- · Ecotoxical effects: · Other information:

The ecological effects have not been thoroughly investigated, but currently none have been identified.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

· Other adverse effects No further relevant information available.

### 13 Disposal considerations

· Waste treatment methods

· Recommendation

Smaller quantities can be disposed of with solid waste. This product is not considered a RCRA hazardous waste. Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.

- Uncleaned packagings:
- · Recommendation: Disposal must be made according to state and federal regulations.

· Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number	
DOT, ADN, IMDG, IATA	Void
· UN proper shipping name	
DOT, ADN, IMDG, IATA	Void
Transport hazard class(es)	
DOT, ADN, IMDG, IATA	
Class	Void
Packing group	
DOT, IMDG, IATA	Void
Environmental hazards:	Product contains environmentally hazardous
Marine pollutant:	substances: chlorhexidine gluconate Yes
Special precautions for user	Not applicable.



Date Prepared: 03/22/2017

Reviewed On: 03/22/2017

#### Product Name: E-Z Scrub 4% CHG

(Contd. of page 8
Il of Not applicable.
Not dangerous according to the above specifications.
Void

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

· SARA Section 313 (specific toxic chemical listings)

111-42-2 2,2'-iminodiethanol

• TSCA (Toxic Substances Control Act)

All ingredients are listed.

· California Proposition 65 - Chemicals known to cause cancer

111-42-2 2,2'-iminodiethanol

123-91-1 1,4-dioxane

75-21-8 ethylene oxide

 California Proposition 65 - Chemicals known to cause reproductive toxicity for females:

75-21-8 ethylene oxide

California Proposition 65 - Chemicals known to cause reproductive toxicity for males:
 75-21-8 ethylene oxide

· California Proposition 65 - Chemicals known to cause developmental toxicity:

75-21-8 ethylene oxide

Carcinogenic categories

• TLV (Thre	shold Limit Value established by ACGIH)	
111-42-2	2,2'-iminodiethanol	A3
7647-01-0	hydrochloric acid	A4
123-91-1	1,4-dioxane	A3
75-21-8	ethylene oxide	A2
0110 1-1-1		· · · · · · · · · · · · · · · · · · ·

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 10)



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# Safety Data Sheet acc. to OSHA HCS

Page 10/11

Date Prepared: 03/22/2017

Reviewed On: 03/22/2017

· Hazard	pictograms	(Contd. of page
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GHS06	GHS08 GHS09	
· Signal v	vord Danger	
· Hazard-	determining components of labeling:	
chlorhex	idine gluconate	
	odiethanol	
	statements	
H301+H	311 Toxic if swallowed or in contact with skin.	
H351	Suspected of causing cancer.	
H400	Very toxic to aquatic life.	
	ionary statements	
P280	Wear protective gloves/protective clothing/eye protection	on/face protection.
P273	Avoid release to the environment.	
P264	Wash thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P201	Obtain special instructions before use.	
P202	Do not handle until all safety precautions have been rea	ad and understood.
P301+P3	310 IF SWALLOWED: Immediately call a POISON CENTER	R/ doctor,
P321	Specific treatment (see on this label).	
P312	Call a POISON CENTER/doctor if you feel unwell.	
P308+P3	13 IF exposed or concerned: Get medical advice/attention.	
P330	Rinse mouth.	
P302+P3 P391	852 IF ON SKIN: Wash with plenty of water.	
	Collect spillage.	
P301+P3	164 Take off immediately all contaminated clothing and was Store locked up.	h it before reuse.
P501		
1 001	Dispose of contents/container in accordance with local/ international regulations.	regional/national/
	momanonal Tegulations,	

### 16 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability 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 can not guarantee that these are the only hazards that exist.

(Contd. on page 11)



Date Prepared: 03/22/2017

Reviewed On: 03/22/2017

Product Name: E-Z Scrub 4% CHG (Contd. of page 10) Department issuing SDS: Environmental, Health & Safety Created by Michael J. Spinazzola · Contact: Technical Service Representative · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Tox. 2: Acute toxicity - Category 2 Acute Tox. 3: Acute toxicity - Category 3 Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 1: Acute toxicity – Category 1 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Carc. 2: Carcinogenicity -- Category 2 Carc. 2: Carcinogenicity - Category 2 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 US