

SAFETY DATA SHEETS

This SDS packet was issued with item:

078043107

N/A

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: E-Z SCRUB™ Scrub 7471749 4% CHG
Catalog Nos. 371073, 377477 and 377479
Date: 04/19/10 **Revision #:** 4



PRODUCT AND COMPANY INFORMATION – SECTION 1

Company Identification

Name: Becton Dickinson Medical Systems
Address: 9450 South State Street
Sandy, UT 84070

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT:

In the continental U.S., call: 801.565.2300 (24 hour)
For additional information, call: 888.237.2762
(M-F, 8:00 AM-4:30 PM EST)

COMPOSITION INFORMATION – SECTION 2

Product Name: BD E-Z Scrub with Chlorhexidine Gluconate as Surgical Hand Scrub
Chemical Formula: Proprietary Mixture

| <u>Chemical Name</u> | <u>Percent Wt.</u> | <u>CAS Number</u> | <u>RTECS Number</u> |
|----------------------------|--------------------|-------------------|---------------------|
| Chlorhexidine Gluconate | 4.0 | 18472-51-0 | DU1950000 |

This is a water-based solution of surfactants and Chlorhexidine Gluconate.

OSHA REGULATORY STATUS

| | |
|---|--|
| | This material is classified as not hazardous under OSHA regulations. |
| X | While this material is not classified as hazardous under OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of the product. |
| | This material is classified as hazardous under OSHA regulations. |

HAZARDS IDENTIFICATION – SECTION 3

EMERGENCY OVERVIEW

- Clear, pink/red liquid with perfumed odor.
- Presents little or no hazard if spilled.
- Presents little or no fire hazard.
- For external use only: keep out of eyes, ears, and mouth.

POTENTIAL HEALTH EFFECTS

Eyes: May cause permanent damage.
Ears: May cause permanent hearing loss.

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POTENTIAL HEALTH EFFECTS

- Skin:** May cause irritation in hypersensitive individuals. Avoid contact with meninges.
- Inhalation:** Overexposure may cause headache, fatigue, dizziness, loss of coordination, and unconsciousness. Vapor has anesthetic properties.
- Ingestion:** Harmful if swallowed.

FIRST AID MEASURES – SECTION 4

Seek medical attention for all cases of overexposure.

FIRST AID MEASURES

- Eyes:** Flush thoroughly with water for at least 15 minutes. Seek medical attention.
- Ears:** Flush with water, repeating several times. Seek medical attention.
- Skin:** Flush with water. Seek medical attention.
- Ingestion:** Wash out mouth with water. Treat with gastric lavage using milk, egg white, or mild soap. Seek medical attention.
- Inhalation:** Remove patient from exposure. Keep warm and at rest. Seek medical attention if ill effects occur.

FIRE FIGHTING MEASURES – SECTION 5

| | <u>NFPA Rating</u> | |
|--------|--------------------|------------|
| Health | Fire | Reactivity |
| 1 | 0 | 0 |

Flammability Properties

- Flash Point / Method:** N/A
- Flammability Limits:** LEL: N/A UEL: N/A
(in air % by volume)
- Autoignition Temperature:** U/K
- Hazardous Combustion Products:** Carbon dioxide, carbon monoxide, hydrogen chloride gas, nitrogen oxides, ammonia.
- Extinguishing Media:** Water, foam, dry chemical, carbon dioxide.
- Fire Fighting Instructions:** As in any fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.
- Unusual Fire and Explosion Hazards:** Emits toxic fumes under fire conditions.

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ACCIDENTAL RELEASE MEASURES - SECTION 6

Absorb spilled material with suitable absorbent. Transfer to container for disposal in accordance with regulatory requirements. Mop area clean.

HANDLING & STORAGE – SECTION 7

Handling: External use only. Avoid contact with eyes, ears, and mouth.

Storage: Store at room temperature. Protect from light. Avoid excessive heat (104°F).

EXPOSURE CONTROLS / PERSONAL PROTECTION – SECTION 8

Engineering Controls: General ventilation for conditions of prescribed use.

Personal Protective Equipment

Eye/Face Protection: Not required for normal use. Wear safety goggles or a full face shield for spill cleanup or if splashing is possible.

Skin Protection: Not required for normal use. Wear impervious gloves and apron for spill cleanup.

Respiratory Protection: Not required for normal use. Use NIOSH approved respirator for organic vapors, if necessary.

Exposure Guidelines

OSHA PEL: N/A

ACGIH TLV: N/A

PHYSICAL & CHEMICAL PROPERTIES – SECTION 9

Appearance, Physical State: Clear, pink / red liquid

Odor: Perfumed

Molecular Weight: N/A

pH: 6-7.5

Boiling Point: Similar to water

Melting Point: Similar to water

Vapor Pressure (mm Hg): Similar to water

Vapor Density (Air=1): Similar to water

Solubility in Water: Soluble

Specific Gravity: 1.06

Viscosity @ 25°C: 50-500 CPS

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STABILITY & REACTIVITY – SECTION 10

Stability: Stable under normal conditions
Conditions to Avoid: High heat
Materials to Avoid: Strong oxidizing agents, anionic compounds
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides, ammonia, hydrogen chloride gas
Hazardous Polymerization: Will not occur

TOXICOLOGICAL INFORMATION – SECTION 11

Chlorhexidine gluconate: oral LD50 = 1260 mg/kg (mouse) - 2 g/kg (rat)

No significant human data is available for this material.

ECOLOGICAL INFORMATION – SECTION 12

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

DISPOSAL CONSIDERATION – SECTION 13

Dispose of in accordance with Federal, state and local regulations. Discarded product is not a hazardous waste under RCRA, 40 CFR 261. Empty container retains product residue. Observe all hazard precautions.

TRANSPORT INFORMATION - SECTION 14

DOT CLASSIFICATION: Not regulated in non-bulk packaging

IATA CLASSIFICATION: Not Regulated

IMDG CLASSIFICATION: Not Regulated

REGULATORY INFORMATION – SECTION 15

US REGULATIONS

OSHA Not Regulated
TSCA All ingredients are on the TSCA Chemical Substances Inventory (8(b)).
CERCLA Not Regulated
SARA Title III Not Regulated

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STATE REGULATIONS

| | |
|--|---------------|
| MA Substance List | Not Regulated |
| NJ Right-to-Know Hazardous Substance List | Not Regulated |
| PA Hazardous Substance List | Not Regulated |
| Canadian WHMIS | Not Regulated |

OTHER INFORMATION - SECTION 16

Definitions:

UIK = Unknown **NIA** = Not Applicable

To the best of our knowledge, the information contained herein is accurate. However, neither Becton Dickinson nor any of its subsidiaries assumes any liability 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 cannot guarantee that these are the only hazards that exist. The possibility exists that the EU will not recognize this MSDS due to the fact that several components of the MSDS are reflective of ANSI Z-400.1-1998. Although ILO (International Labor Organization) has adopted ANSI Z-400.1-1998, ultimate disposition lies with the competent authority.

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VERSION HISTORY

| Version | Description | ECO Number | Version Prepared By |
|---------|--|------------|---------------------------------|
| 4 | Review and Update: From the Header: Remove Obsolete Catalog Number 377496 add Catalog Number 371073. Update the Date to 4/19/10 and the Revision to 4. Also, corrected QDMS Attributes from WWB104 to WWB108. | ECO123316 | Rachel LeBlanc Janet Boggess |
| 3 | Review and update document. Show review date in header (10/29/08) and footer (10-08). After review, update section 14 to remove "Combustible liquid" So this section becomes: "Not regulated in non-bulk packaging". CCB# 1599 (10/30/2008). | ECO92782 | Janet Boggess Rachel LeBlanc |
| 2 | Date of MSDS 14536 and D14554 updated to current date 9/13/05 to comply with regulation in Canada. And change Version number. | ECO35390 | George Nolan |

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 03/22/2017

Reviewed On: 03/22/2017

1 Identification

- **Product Identifier:**
- **Product Name:** E-Z Scrub 4% CHG
- **Catalog Number:** 371073
- **Application of the substance / the mixture** Skin Antiseptic.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Becton Dickinson (BD)
9450 South State Street
Sandy, UT 84070
BD Diagnostic Systems
7 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771 - 0100 or (800) 638 – 8663
Email Address: Technical_Services@bd.com
- **Information Department:** Technical Service
- **Emergency telephone number:**
1-801-565-2300 (US 24 hour) +001 801-565-2300 (International 24 hour)
In case of a chemical emergency, spill, fire, exposure, or accident contact Chemtrec: 800-424-9300 or +001 703-527-3887 (International).
In 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.

2 Hazard(s) identification

- **Classification of the substance or mixture**



Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 3 H311 Toxic in contact with skin.



Health hazard

Carc. 2 H351 Suspected of causing cancer.



Environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

- **Label elements**

- **GHS label elements**

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

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Product Name: E-Z Scrub 4% CHG

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· 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**P280 Wear protective gloves/protective clothing/eye protection/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 read and understood.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P321 Specific treatment (see on this label).
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.
P501 Dispose of contents/container in accordance with local/regional/national/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 = 0
Reactivity = 0

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Product Name: E-Z Scrub 4% CHG

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· **HMIS ratings (scale 0-4)**

| | | |
|------------|---|------------------|
| HEALTH | 1 | Health = 1 |
| FIRE | 0 | Flammability = 0 |
| REACTIVITY | 0 | 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 Components:**

| | | |
|--------------------------------------|---|-------|
| CAS: 18472-51-0 EINECS: 242-354-0 | chlorhexidine gluconate Acute Tox. 2, H300; Acute Tox. 1, H310; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 | 4.34% |
| CAS: 111-42-2 EINECS: 203-868-0 | 2,2'-iminodiethanol Carc. 2, H351; STOT RE 2, H373; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315 | 3.28% |

- **Additional information** 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.

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- **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 °C) or (68 - 77 °F)
Avoid excessive heat (above 40°C or 104°F)
- **Information about storage in one common storage facility:**
Store away from oxidizing agents.

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- **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).

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **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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Product Name: E-Z Scrub 4% CHG

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| | |
|---|---|
| · 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/cm ³ (8.846 lbs/gal) |
| Vapor density | Not determined. |
| Evaporation rate | Not determined. |
| · Solubility in / Miscibility with Water: | Soluble |
| · Partition coefficient (n-octanol/water): | 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 (NO_x)
Ammonia (NH₄)

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Hydrogen chloride (HCl) gas

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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 (International 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 (National Toxicology Program)**

None of the 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.

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- **Ecotoxicological 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.

14 Transport information

| | |
|---------------------------------------|--|
| · 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 substances: chlorhexidine gluconate |
| · Marine pollutant: | Yes |
| · Special precautions for user | Not applicable. |

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- | | |
|--|--|
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · Transport/Additional information: | Not dangerous according to the above specifications. |
| · UN "Model Regulation": | 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 (Threshold 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 |
|---------|----------------|----|

- **GHS label elements**

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

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Product Name: E-Z Scrub 4% CHG

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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**P280 Wear protective gloves/protective clothing/eye protection/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 read and understood.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P321 Specific treatment (see on this label).
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.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

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Product Name: E-Z Scrub 4% CHG

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· 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. 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

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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

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