

**Safety Data Sheet**  
acc. to OSHA HCS

Date Prepared: 04/27/2015

Reviewed On: 05/19/2015

**1 Identification**

- **Product Identifier:**
- **Product Name:** BD E-Z Scrub™ Scrub Brush 3% Chloroxyleneol (PCMX).
- **Catalog Number:** 371167.
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Sector of Use:** SU0 Other.
- **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
- **Information Department:** Customer 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:  
1-800-424-9300 (US) or +001-703-527-3887 (International).

**2 Hazard(s) identification**

- **Classification of the substance or mixture:**



GHS09 Environment.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC:** Void.

- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **Label elements:**

- **GHS label elements:**

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

- **Hazard pictograms:**



GHS07 GHS09

- **Signal word:** Warning.

- **Hazard-determining components of labeling:**

Chloroxyleneol.

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**Hazard statements:**

- H319 Causes serious eye irritation.
- H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements:**

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- 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.
- P391 Collect spillage.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**NFPA ratings (scale 0-4):**



**HMIS ratings (scale 0-4):**



**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: 88-04-0      | Chloroxylenol. | Xn R22; Xi R36/38-43 | 3.0% |
| EINECS: 201-793-8 |                |                      |      |

- 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:** Supply fresh air; consult doctor in case of complaints.
- After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- After eye contact:**  
Rinse opened eye for 15 minutes under running water. Then consult a doctor.
- After swallowing:**  
Rinse out mouth and then drink plenty of water.

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- Seek medical treatment.
- **Information for doctor:** Show this product label or this SDS.
- **Most important symptoms and effects, both acute and delayed:**  
No further relevant information available.
- **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.  
Carbon dioxide.
- **Special hazards arising from the substance or mixture:**  
No further relevant information available.
- **Advice for firefighters:**
- **Protective equipment:**  
Wear fully protective suit.  
Wear self-contained respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:** See Section 8.
- **Environmental precautions:** Wipe up with damp sponge or mop.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).  
Ensure adequate ventilation.
- **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.
- **Storage:**
- **Conditions for safe storage, including any incompatibilities:**
- **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).

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- **Information about storage in one common storage facility:**  
Store away from oxidizing agents.
- **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:**  
Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Chemical resistant gloves (i.e. nitrile, or equivalent).

- **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:**

|               |                        |
|---------------|------------------------|
| <b>Form:</b>  | Liquid.                |
| <b>Color:</b> | Colorless.<br>Whitish. |
- **Odor:** Characteristic.
- **Odor threshold:** Not determined.
- **pH-value at 23°C (73°F):** 4.2 - 5.2.
- **Change in condition:**

|                                     |                |
|-------------------------------------|----------------|
| <b>Melting point/Melting range:</b> | 0°C (32°F).    |
| <b>Boiling point/Boiling range:</b> | 100°C (212°F). |

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|   |   |
|---|---|
| · <b>Flash point:</b>                             | Not applicable.                               |
| · <b>Flammability (solid, gaseous):</b>           | Not applicable.                               |
| · <b>Ignition temperature:</b>                    |   |
| <b>Decomposition temperature:</b>                 | Not determined.                               |
| · <b>Auto igniting:</b>                           | Product is not self igniting.                 |
| · <b>Danger of explosion:</b>                     | Product does not present an explosion hazard. |
| · <b>Explosion limits:</b>                        |   |
| <b>Lower:</b>                                     | Not determined.                               |
| <b>Upper:</b>                                     | Not determined.                               |
| · <b>Vapor pressure at 20°C (68°F):</b>           | 23 kPa.                                       |
| · <b>Density:</b>                                 | Not determined.                               |
| · <b>Relative density:</b>                        | Not determined.                               |
| · <b>Vapour density:</b>                          | Not determined.                               |
| · <b>Evaporation rate:</b>                        | Not determined.                               |
| · <b>Solubility in / Miscibility with Water:</b>  | Soluble.                                      |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                               |
| · <b>Viscosity:</b>                               |   |
| <b>Dynamic:</b>                                   | Not determined.                               |
| <b>Kinematic:</b>                                 | Not determined.                               |
| · <b>Solvent content:</b>                         |   |
| <b>Organic solvents:</b>                          | 2.0%.   |
| · <b>Other information:</b>                       | No further relevant information available.    |

**10 Stability and reactivity**

- **Reactivity:**
- **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:** Strong oxidizers.
- **Hazardous decomposition products:** No dangerous decomposition products known.

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### 11 Toxicological information

- **Information on toxicological effects:**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

**88-04-0 Chloroxylenol:**

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | 3830 mg/kg (rat). |
|------|------|-------------------|

- **Primary irritant effect:**
- **On the skin:** May cause irritation to skin and mucous membranes.
- **On the eye:** May cause irritation.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations.

- **Carcinogenic categories:**

- **IARC (International Agency for Research on Cancer):**

|          |                      |
|----------|----------------------|
| 127-18-4 | Tetrachloroethylene. |
|----------|----------------------|

- **NTP (National Toxicology Program):**

|                                    |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

- **OSHA-Ca (Occupational Safety & Health Administration):**

|                                    |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

### 12 Ecological information

- **Toxicity:**
- **Aquatic toxicity:**  
88-04-0: LC50 – *Oncorhynchus mykiss* (Rainbow Trout) 0.36 mg/L – 96 hr; EC50 *Daphnia magna* 7.7 mg/L – 48 hr.
- **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.
- **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.

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**13 Disposal considerations**

- **Waste treatment methods:**
- **Recommendation:**  
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).
- **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**

|   |  |
|---|--|
| · <b>UN-Number:</b>   |  |
| · <b>DOT, ADR, ADN, IMDG, IATA:</b>   | Void.  |
| · <b>UN proper shipping name:</b>   |  |
| · <b>DOT, ADR, ADN, IMDG, IATA:</b>   | Void.  |
| · <b>Transport hazard class(es):</b>  |  |
| · <b>DOT, ADR, ADN, IMDG, IATA:</b>   |  |
| · <b>Class:</b>   | Void.  |
| · <b>Packing group:</b>   |  |
| · <b>DOT, ADR, IMDG, IATA:</b>  | Void.  |
| · <b>Environmental hazards:</b>   |  |
| · <b>Marine pollutant:</b>  | No.  |
| · <b>Special precautions for user:</b>  | Not applicable.  |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b> | Not applicable.  |
| · <b>Transport/Additional information:</b>  | If "void" appears in the Hazard Class section for the type of transportation, this indicates the product is not regulated for transportation. Not dangerous according to the above specifications. |
| · <b>UN "Model Regulation":</b>   | Not applicable.  |

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**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):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **California Proposition 65 - Chemicals known to cause cancer:**

127-18-4 Tetrachloroethylene.

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

None of the ingredients is listed.

· **California Proposition 65 - Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

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

None of the ingredients is listed.

· **Carcinogenic categories:**

· **TLV (Threshold Limit Value established by ACGIH):**

None of the ingredients is listed.

· **GHS label elements:**

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

· **Hazard pictograms:**



GHS07 GHS09

· **Signal word:** Warning.

· **Hazard-determining components of labeling:**

Chloroxylenol.

· **Hazard statements:**

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

· **Precautionary statements:**

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

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.

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P391 Collect spillage.  
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.

- **Contact:** Technical Service Representative.
- **Date of preparation / last revision:** 04/27/2015 - 04/19/2010.
- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).
  - 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).
  - LC50: Lethal concentration, 50 percent.
  - LD50: Lethal dose, 50 percent.
  - Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A.
  - Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1.

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