





# Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

|  |  |                                  |
|--|--|----------------------------------|
| <br><b>WHMIS (Pictograms)</b> | <b>WHMIS Class E: Corrosive solid. WHMIS Class D-2: Material causing other toxic effects.</b><br><b>WHMIS (Classification)</b> | Corrosive Material<br><b>HCS</b> |
|--|--|----------------------------------|

## Section 1. Chemical Product and Company Identification

|  |   |
|--|---|
| <b>Product Name/ Trade name</b> <b>Daily Scrub SC</b>  | <b>Code</b> 188   |
| <b>Synonym</b> Daily Floor Cleaner   | <b>CAS #</b> Mixture.   |
| <b>Chemical Family</b> Not available.  | <b>Validation Date</b> 3/14/2005  |
| <b>Chemical Formula</b> Not applicable.  | <b>Print Date</b> 3/15/2005   |
| <b>Manufacturer/ Supplier</b> Betco Corporation<br>1001 Brown Avenue<br>Toledo, Ohio 43607<br>(800) 666-2156 | <b>In Case of Emergency</b> CHEMTREC (800) 424-9300   |
| <b>TSCA</b> TSCA Inventory: All components listed or are exempt from listing.                                |   |
| <b>DSL/ NDSL</b> All components listed unless noted elsewhere on this MSDS                                   | <b>Protective Clothing</b><br> |

## Section 2. Composition and Information on Ingredients

| Name   | CAS #                              | % by Weight              | Exposure Limits  | LC <sub>50</sub> /LD <sub>50</sub>                         |
|--|------------------------------------|--------------------------|--|--|
| Monoethanolamine<br>2-Butoxyethanol                        | 141-43-5<br>111-76-2               | 30 - 40<br>15 - 20       | Not available.<br><b>ACGIH (United States).</b><br>TWA: 20 ppm<br><b>OSHA (United States).</b><br>TWA: 50 ppm  | Not available.<br>ORAL (LD50): Acute:<br>1746 mg/kg [Rat]. |
| Nonionic Surfactant<br>Gluconic Acid<br>Ammonium Hydroxide | 9016-45-9<br>526-95-4<br>1336-21-6 | 5 - 10<br>1 - 5<br>1 - 5 | Not available.<br>Not available.<br>TWA: 50 ppm<br><b>OSHA (United States).</b><br>TWA: 50 ppm<br>STEL: 35 ppm | Not available.<br>Not available.<br>Not available.         |

## Section 3. Hazards Identification

|                                       |   |
|---------------------------------------|---|
| <b>Potential Acute Health Effects</b> | Extremely hazardous in case of skin contact (corrosive, irritant), of eye contact (irritant, corrosive). Very hazardous in case of ingestion, . Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. |
|---------------------------------------|---|

|   |   |
|---|---|
| <b>Potential Chronic Health Effects</b> | Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs. Repeated or prolonged exposure to the substance can produce blood disorders. Repeated or prolonged exposure to the substance can produce kidney damage. Repeated or prolonged exposure to the substance can produce liver damage. Repeated or prolonged exposure to the substance can produce reproductive system damage. |
| <b>Carcinogenic Effects</b>             | Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.  |

#### **Section 4. First Aid Measures**

|                     |   |
|---------------------|---|
| <b>Eye Contact</b>  | Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.  |
| <b>Skin Contact</b> | In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately. |
| <b>Inhalation</b>   | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.  |
| <b>Ingestion</b>    | If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.   |

#### **Section 5. Fire Fighting Measures**

|   |   |
|---|---|
| <b>Products of Combustion</b>               | These products are carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> ...).     |
| <b>Fire Fighting Media and Instructions</b> | SMALL FIRE: Use DRY chemical powder.<br>LARGE FIRE: Use water spray, fog or foam. Do not use water jet. |
| <b>Special Remarks on Fire Hazards</b>      | Not available.  |
| <b>Special Remarks on Explosion Hazards</b> | Not available.  |

#### **Section 6. Accidental Release Measures**

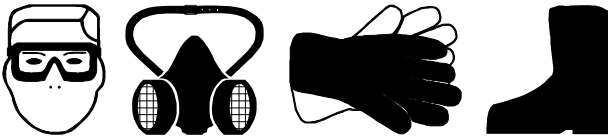
|   |   |
|---|---|
| <b>Small Spill and Leak</b>                         | Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.  |
| <b>Large Spill and Leak</b>                         | Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. |
| <b>Personal Protection in Case of a Large Spill</b> | Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product.   |

#### **Section 7. Handling and Storage**

|                    |   |
|--------------------|---|
| <b>Precautions</b> | Keep locked up. Keep container dry. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. |
|--------------------|---|

|                        |  |
|------------------------|--|
| <b>Incompatibility</b> | Not available.   |
| <b>Storage</b>         | Keep container tightly closed. Keep container in a cool, well-ventilated area. |

### Section 8. Exposure Controls/Personal Protection

|   |   |
|---|---|
| <b>Engineering Controls</b>             | Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location. |
| <b>Personal Protection</b>              |   |
| <i>Eyes</i>                             | Face shield.  |
| <i>Body</i>                             | Full suit.  |
| <i>Respiratory</i>                      | Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.  |
| <i>Hands</i>                            | Gloves.   |
| <b>Protective Clothing (Pictograms)</b> |   |
| <b>Exposure Limits</b>                  | Not available.  |

### Section 9. Physical and Chemical Properties

|                                      |  |              |                 |
|--------------------------------------|--|--------------|-----------------|
| <b>Physical State and Appearance</b> | Liquid.  | <b>Odor</b>  | Characteristic. |
| <b>Molecular Weight</b>              | Not applicable.  | <b>Taste</b> | Not available.  |
| <b>pH</b>                            | Not available.   | <b>Color</b> | Green.          |
| <b>Boiling/Condensation Point</b>    | 101.11°C (214°F)   |              |                 |
| <b>Melting/Freezing Point</b>        | May start to solidify at 0°C (32°F) based on data for: Water.  |              |                 |
| <b>Critical Temperature</b>          | Not available.   |              |                 |
| <b>Instability Temperature</b>       | Not available.   |              |                 |
| <b>Specific Gravity</b>              | 0.997 (Water = 1)  |              |                 |
| <b>Vapor Pressure</b>                | The highest known value is 0.001 kPa (0.01 mm Hg) (at 20°C) (nonylphenol polyethylene glycol ether). |              |                 |
| <b>Vapor Density</b>                 | The highest known value is >1 (Air = 1) (nonylphenol polyethylene glycol ether).                     |              |                 |
| <b>Volatility</b>                    | >70% (w/w).  |              |                 |
| <b>VOC</b>                           | 36 (%)   |              |                 |
| <b>Evaporation Rate</b>              | <1 compared to Butyl acetate.  |              |                 |
|                                      |  |              |                 |
|                                      |  |              |                 |
| <b>Dispersion Properties</b>         | See solubility in water, methanol, acetone.  |              |                 |
| <b>Solubility</b>                    | Easily soluble in methanol, acetone.<br>Partially soluble in cold water, hot water.                  |              |                 |
| <b>The Product is:</b>               | May be combustible at high temperature.  |              |                 |

|  |                                |
|--|--------------------------------|
| <b>Auto-ignition Temperature</b>                           | Not available.                 |
| <b>Flash Points</b>  | Closed cup: >98.889°C (210°F). |
| <b>Flammable Limits</b>                                    | Not available.                 |
| <b>Fire Hazards in Presence of Various Substances</b>      | Not available.                 |
| <b>Explosion Hazards in Presence of Various Substances</b> | Not available.                 |

### Section 10. Stability and Reactivity Data

|  |                        |
|--|------------------------|
| <b>Stability</b>                               | The product is stable. |
| <b>Incompatibility with Various Substances</b> | Not available.         |
| <b>Hazardous Decomposition Products</b>        | Not available.         |

### Section 11. Toxicological Information

|   |  |
|---|--|
| <b>Routes of Entry</b>                              | Dermal contact. Eye contact. Inhalation. Ingestion.  |
| <b>Toxicity to Animals</b>                          | Acute oral toxicity (LD50): 1746 mg/kg [Rat]. (2-Butoxyethanol).<br>Acute toxicity of the gas (LC50): 700 ppm 7 hour(s) [Mouse]. (2-Butoxyethanol).  |
| <b>Acute Effects on Humans</b>                      | <p><i>Eyes</i> Eye contact can result in corneal damage or blindness. Extremely hazardous in case of eye contact (irritant, corrosive).</p> <p><i>Skin</i> Sensitization of the product: Not available.<br/>Extremely hazardous in case of skin contact (corrosive, irritant). Skin contact may produce burns. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.</p> <p><i>Inhalation</i> Very hazardous in case of inhalation. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Over-exposure by inhalation may cause respiratory irritation. May be fatal if inhaled.</p> <p><i>Ingestion</i> Very hazardous in case of ingestion. May be fatal if swallowed. May cause burns to mouth, throat and stomach.</p> |
| <b>Chronic Effects on Humans</b>                    | Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs. Repeated or prolonged exposure to the substance can produce blood disorders. Repeated or prolonged exposure to the substance can produce kidney damage. Repeated or prolonged exposure to the substance can produce liver damage. Repeated or prolonged exposure to the substance can produce reproductive system damage.  |
| <b>Special Remarks on Toxicity to Animals</b>       | Not available.   |
| <b>Special Remarks on Chronic Effects on Humans</b> | Not available.   |

### Section 12. Ecological Information

|   |   |
|---|---|
| Ecotoxicity                                       | Not available.  |
| BOD5 and COD                                      | Not available.  |
| Products of Biodegradation                        | These products are carbon oxides (CO, CO <sub>2</sub> ) and water, nitrogen oxides (NO, NO <sub>2</sub> ...). |
| Toxicity of the Products of Biodegradation        | The products of degradation are less toxic than the product itself.   |
| Special Remarks on the Products of Biodegradation | Not available.  |

### Section 13. Disposal Considerations

|                   |  |
|-------------------|--|
| Waste Information | Waste must be disposed of in accordance with federal, state and local environmental control regulations. |
| Waste Stream      | Not available.   |

### Section 14. Transport Information

DOT (U.S.A)  
(Pictograms)



TDG Classification 8



PIN UN, Proper Shipping Name, PG Shipping name: Corrosive liquids, N.O.S. UNNA: UN1760 PG: II

Maritime Transportation Not available.

Special Provisions for Transport Not available.

### Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification) WHMIS Class E: Corrosive solid. WHMIS Class D-2: Material causing other toxic effects.



Regulatory Lists No products were found.

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications HCS (U.S.A.)  
Corrosive Material

**USA Regulatory Lists**

**WARNING:** This product contains chemical(s) known to the state of California to cause cancer, birth defects or other reproductive harm: Formaldehyde  
**WARNING:** This product contains chemical(s) known to the state of California to cause reproductive harm (female): Ethylene Oxide  
**WARNING:** This product contains chemical(s) known to the state of California to cause cancer.: Ethylene Oxide ; Formaldehyde  
Massachusetts RTK: Ethylene Oxide ; Formaldehyde  
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: 2-Butoxyethanol: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

**DSD (EEC)**

Harmful by inhalation, in contact with skin and if swallowed.

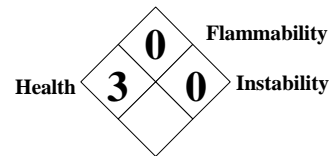
**International Regulations Lists**

No products were found.

**Hazardous Material Information System (U.S.A.)**

|                 |   |   |
|-----------------|---|---|
| Health          | * | 3 |
| Flammability    |   | 0 |
| Physical Hazard |   | 0 |

**National Fire Protection Association (U.S.A.)**



Specific Hazard

The Hazard Ranking systems presented on this MSDS provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

**Section 16. Other Information**

Validated by CRushton on 3/14/2005.

Verified by CRushton.

Printed 3/15/2005.

**Information Contact** COMPANY NAME  
COMPANY ADDRESS  
EMERGENCY PHONE

Notice to Reader

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier 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.*