



# Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200



**CLASS E: Corrosive liquid.**  
**WHMIS Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).**

**HCS CLASS: Corrosive liquid.** HCS Class: Combustible liquid IIIA having a flash point between 60.0°C (140°F) and 93.3°C (200°F).

WHMIS (Pictograms)

WHMIS (Classification)

HCS

## Section 1. Chemical Product and Company Identification

<b>Product Name/ Trade name</b>	<b>Extreme Ultra (At Dilution)</b>	<b>Code</b>	<b>194 (At 1:20 Dilution)</b>
<b>Synonym</b>	Floor Stripper	<b>Version Number</b>	
<b>Chemical Family</b>	Not available.	<b>Validation Date</b>	3/4/2010
<b>Chemical Formula</b>	Not applicable.	<b>Print Date</b>	3/4/2010
<b>Manufacturer/ Supplier</b>	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (419) 241-2156	<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		

### Protective Clothing



## Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
Benzyl Alcohol	100-51-6	1 - 5	TWA: 3 ppm STEL: 6 ppm	Not available.
Monoethanolamine	141-43-5	1 - 5	TWA: 3 ppm <b>OSHA (United States).</b> TWA: 6 ppm STEL: 6 ppm	Not available.
2-Butoxyethanol	111-76-2	0.5 - 1	<b>ACGIH (United States).</b> TWA: 20 ppm <b>OSHA (United States).</b> TWA: 50 ppm	ORAL (LD50): Acute: 1746 mg/kg [Rat].

## Section 3. Hazards Identification

<b>Potential Acute Health Effects</b>	Extremely hazardous in case of eye contact (irritant). Very hazardous in case of skin contact (corrosive, irritant), of ingestion, of inhalation. Eye contact can result in corneal damage or blindness.
<b>Potential Chronic Health Effects</b>	Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause respiratory irritation. 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 nervous system damage.
<b>Carcinogenic Effects</b>	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

#### Section 4. First Aid Measures

Eye Contact	Hold eye open and rinse slowly and thoroughly with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation	Evacuate the victim to a safe area as soon as possible. Seek medical attention.
Ingestion	Have conscious person drink several glasses of water or milk. Do not induce vomiting. Seek immediate medical attention.

#### Section 5. Fire Fighting Measures

Products of Combustion	Not available.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemicals, CO2, water spray or foam. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.
Special Remarks on Fire Hazards	No additional remark.
Special Remarks on Explosion Hazards	No additional remark.

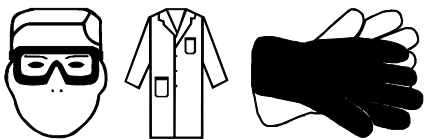
#### Section 6. Accidental Release Measures

Small Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal. If necessary: <b>Neutralize the residue with a dilute solution of acetic acid</b>
Large Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

#### Section 7. Handling and Storage

Precautions	Keep locked up. 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 or spray. 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.
Incompatibility	acids alkalis
Storage	Corrosive materials should be stored in a separate safety storage cabinet or room. Keep out of the reach of children. Not for use or storage in or around the home.

#### Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.
Personal Protection	<i>Eyes</i> Splash goggles. <i>Body</i> Wear overalls or long sleeved shirt and long trousers, nitrile rubber or neoprene gloves, rubber boots. <i>Respiratory</i> Wear appropriate respirator when ventilation is inadequate. <i>Hands</i> Gloves (impervious).
Protective Clothing (Pictograms)	

**Exposure Limits****Benzyl Alcohol**

TWA: 3 STEL: 6 (ppm)

**Monoethanolamine**

TWA: 3 (ppm)

TWA: 6 (ppm) from OSHA (PEL)

STEL: 6 (ppm)

**2-Butoxyethanol**

TWA: 25 (ppm)

TWA: 50 (ppm) from OSHA (PEL)

Consult local authorities for acceptable exposure limits.

**Section 9. Physical and Chemical Properties**

<b>Physical State and Appearance</b>	Liquid.	<b>Odor</b>	Aromatic.
<b>Molecular Weight</b>	Not applicable.	<b>Taste</b>	Not available.
<b>pH</b>	11 to 12 [Basic.]	<b>Color</b>	Clear
<b>Boiling/Condensation Point</b>	Not available.		
<b>Melting/Freezing Point</b>	Not available.		
<b>Critical Temperature</b>	Not available.		
<b>Instability Temperature</b>	Not available.		
<b>Specific Gravity</b>	1.01 (Water = 1)		
<b>Vapor Pressure</b>	Not available.		
<b>Vapor Density</b>	>1 (Air = 1)		
<b>Volatility</b>	88% (w/w).		
<b>VOC</b>	88 (%)		
<b>Evaporation Rate</b>	Not available.		
<b>Dispersion Properties</b>	Not available.		
<b>Solubility</b>	Not available.		
<b>The Product is:</b>	May be combustible at high temperature.		
<b>Auto-ignition Temperature</b>	Not available.		
<b>Flash Points</b>	CLOSED CUP:93.333°C (200°F). (TCC).		
<b>Flammable Limits</b>	Not available.		
<b>Fire Hazards in Presence of Various Substances</b>	No specific information is available in our database regarding the flammability of this product in presence of various materials.		
<b>Explosion Hazards in Presence of Various Substances</b>	Not applicable		

### Section 10. Stability and Reactivity Data

**Stability** The product is stable.

**Incompatibility with Various Substances** acids alkalis

**Hazardous Decomposition Products** Not available.

### Section 11. Toxicological Information

**Routes of Entry** Absorbed through skin. Eye contact. Inhalation. Ingestion.

**Toxicity to Animals** **WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.**  
Acute oral toxicity (LD50): 1746 mg/kg [Rat]. (2-Butoxyethanol).  
Acute toxicity of the gas (LC50): 926 ppm 4 hour(s) [Mouse]. (2-Butoxyethanol).

#### Acute Effects on Humans

**Eyes** Eye contact can result in corneal damage or blindness.

**Skin** Corrosive to skin and eyes on contact. Skin contact may produce burns.

**Inhalation** Harmful if inhaled. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.

**Ingestion** Very hazardous in case of ingestion.

**Chronic Effects on Humans** Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause respiratory irritation. 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 nervous system damage.

**Special Remarks on Toxicity to Animals** No additional remark.

**Special Remarks on Chronic Effects on Humans** No additional remark.

### Section 12. Ecological Information

**Ecotoxicity** Not available.

**BOD5 and COD** Not available.

**Products of Biodegradation** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation** Not available.

**Special Remarks on the Products of Biodegradation** No additional remark.

### 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 Class 8: Corrosive material



PIN UN, Proper Shipping Name, PG Shipping name: CORROSIVE LIQUIDS, N.O.S. UNNA: UN1760 PG: III

Maritime Transportation Not available.

Special Provisions for Transport Not available.

## Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification) CLASS E: Corrosive liquid.  
WHMIS Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).



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.)** HCS CLASS: Corrosive liquid. HCS Class: Combustible liquid IIIA having a flash point between 60.0°C (140°F) and 93.3°C (200°F).

**USA Regulatory Lists**  
California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Ethylene Oxide < 1 ppm  
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Ethylene Oxide < 1 ppm  
Massachusetts RTK: Ethylene Oxide  
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: 2-Butoxyethanol: immediate health hazard, delayed health hazard  
SARA 313 toxic chemical notification and release reporting: 2-Butoxyethanol

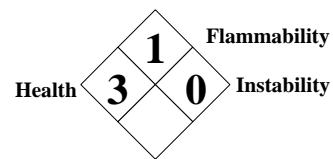
**DSD (EEC)** This product is not classified according to the EU regulations.

**International Regulations Lists** No products were found.

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

Health	*	3
Flammability		1
Physical Hazard		0

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



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. Specific Hazard

**Section 16. Other Information**

Validated by CRushton on 3/4/2010.

Verified by CRushton.

Printed 3/4/2010.

**Information Contact Betco Corporation**  
1001 Brown Avenue  
Toledo, Ohio 43607

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.*

Validated on 3/4/2010.

**Extreme Ultra (At Dilution)**

Page: 6/6

**Continued on Next Page**