



# Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

	WHMIS Class E: Corrosive liquid. WHMIS CLASS D-2: Material causing other toxic effects.	HCS Class: Corrosive liquid.
WHMIS (Pictograms)	WHMIS (Classification)	HCS

## Section 1. Chemical Product and Company Identification

Product Name/ Trade name	<b>Extreme</b>	Code	184
Synonym	High Power/High Speed No Rinse Floor Stripper	CAS #	Not applicable.
Chemical Family	Not available.	Validation Date	1/18/2005
Chemical Formula	Not applicable.	Print Date	1/18/2005
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (419) 241-2156	In Case of Emergency	Chemtrec (800) 424-9300
TSCA	TSCA Inventory: All components listed or are exempt from listing.		
DSL/ NDSL	All components listed unless noted elsewhere on this MSDS		
<b>Protective Clothing</b>			
			

## Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
2-Butoxyethanol	111-76-2	<21	TWA: 20 (ppm) from ACGIH (TLV) [United States] TWA: 50 (ppm) from OSHA (PEL) [United States]	ORAL (LD50): Acute: 1746 mg/kg [Rat].
Benzyl Alcohol	100-51-6	<10	TWA: 3 STEL: 6 (ppm)	Not available.
Monoethanolamine	141-43-5	5-10	TWA: 3 (ppm) TWA: 6 (ppm) from OSHA (PEL) [United States] STEL: 6 (ppm)	Not available.
Sodium Xylene Sulfonate	1300-72-7	<5	Not available.	ORAL (LD50): Acute: 650 mg/kg [Rat]. 5939 mg/kg [Mouse].
Mixed Amphocarboxylates	N/A	0-5	Not available.	Not available.

## Section 3. Hazards Identification

Potential Acute Health Effects	Corrosive to eyes and skin. Harmful if swallowed. Harmful if inhaled. Irritating to mouth, throat and stomach.
Potential Chronic Health Effects	Asthma and related respiratory illness may be aggravated by exposure. Repeated or prolonged exposure to the gas can produce lung damage. 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. However, in light of good industrial hygiene, exposure to any chemical should be kept to a minimum.

Carcinogenic Effects

Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

#### Section 4. First Aid Measures

<b>Eye Contact</b>	Immediately 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. Call a poison control center or doctor immediately for treatment advice.
<b>Skin Contact</b>	Remove contaminated clothing and shoes. Rinse skin with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for further treatment advice.
<b>Inhalation</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration., preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.
<b>Ingestion</b>	Call a poison control center immediately for treatment advice. Have person sip a glass of water if able to swallow. Do NOT induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person

#### Section 5. Fire Fighting Measures

**Products of Combustion** Not available.

**Fire Fighting Media and Instructions** N/A

**Special Remarks on Fire Hazards** N/A

**Special Remarks on Explosion Hazards** N/A

#### Section 6. Accidental Release Measures

**Small Spill and Leak** Absorb with an inert material and place in an appropriate waste disposal container.

**Large Spill and Leak** Prevent entry into sewers, basements or confined areas. Neutralize caustic ingredients with vinegar or acetic acid or use a basic spill kit.

**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** After handling, always wash hands thoroughly with soap and water. Avoid breathing vapors or spray mists. Do not ingest. Good general ventilation should be sufficient to control airborne levels.

**Incompatibility** Strong acids or oxidizers.

**Storage** 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** Good general ventilation should be sufficient to control airborne levels.

**Personal Protection**

*Eyes* Splash goggles.

*Body* Wear overalls or long sleeved shirt and long trousers, nitrile rubber or neoprene gloves, rubber boots.

*Respiratory* Wear appropriate respirator when ventilation is inadequate.

*Hands* Rubber gloves.

**Protective Clothing  
(Pictograms)**



**Exposure Limits**

**2-Butoxyethanol**

TWA: 25 (ppm)  
TWA: 50 (ppm) from OSHA (PEL)

**Monoethanolamine**

TWA: 3 (ppm)  
TWA: 6 (ppm) from OSHA (PEL)  
STEL: 6 (ppm)

Consult local authorities for acceptable exposure limits.

**Section 9. Physical and Chemical Properties**

<b>Physical State and Appearance</b>	Liquid.	<b>Odor</b>	Lemon like.
<b>Molecular Weight</b>	Not applicable.	<b>Taste</b>	Not available.
<b>pH</b>	11.8 to 12.8 [Basic.]	<b>Color</b>	Pale Green.
<b>Boiling/Condensation Point</b>	214°F initial		
<b>Melting/Freezing Point</b>	Not available.		
<b>Critical Temperature</b>	Not available.		
<b>Instability Temperature</b>	Not available.		
<b>Specific Gravity</b>	1 (Water = 1)		
<b>Vapor Pressure</b>	20mm Hg @ 68°F		
<b>Vapor Density</b>	>1 (Air = 1)		
<b>Volatility</b>	95		
<b>VOC</b>	23 (%)		
<b>Evaporation Rate</b>	<1 compared to Butyl acetate.		
<b>Dispersion Properties</b>	See solubility in water.		
<b>Solubility</b>	Easily soluble in cold water.		
<b>The Product is:</b>	Non-flammable.		
<b>Auto-ignition Temperature</b>	Not available.		
<b>Flash Points</b>	Not available.		
<b>Flammable Limits</b>	Not available.		
<b>Fire Hazards in Presence of Various Substances</b>	Non-flammable.		

Explosion Hazards in Presence of Various Substances	Not applicable
---	----------------

### Section 10. Stability and Reactivity Data

Stability	The product is stable.
Incompatibility with Various Substances	Strong acids or oxidizers.
Hazardous Decomposition Products	Will not occur.

### Section 11. Toxicological Information

Routes of Entry	Dermal contact. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	<b>WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.</b> 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	<i>Eyes</i> Severe eye irritant. Liquid and mist may damage the eyes causing corneal injury. <i>Skin</i> Corrosive. Skin contact may produce burns. <i>Inhalation</i> Vapors may be irritating to the mucous membranes in the nose, throat, and lungs. High concentrations may cause headache, dizziness, and nausea. <i>Ingestion</i> Irritating to the mouth, throat, and gastrointestinal system. May cause dizziness, headache, nausea, vomiting, and diarrhea. Harmful if swallowed.
Chronic Effects on Humans	Asthma and related respiratory illness may be aggravated by exposure. Repeated or prolonged exposure to the gas can produce lung damage. 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. However, in light of good industrial hygiene, exposure to any chemical should be kept to a minimum.
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

<b>Waste Information</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
<b>Waste Stream</b>	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: 1760 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 liquid. 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).

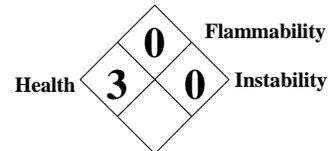
**Other Classifications**

<b>HCS (U.S.A.)</b>	HCS Class: Corrosive liquid.
<b>USA Regulatory Lists</b>	<p>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 &lt; 1 ppm</p> <p>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 &lt; 1ppm</p> <p>Massachusetts RTK: Ethylene Oxide</p> <p>SARA 311/312 MSDS distribution - chemical inventory - hazard identification: 2-Butoxyethanol: immediate health hazard, delayed health hazard</p> <p>SARA 313 toxic chemical notification and release reporting: 2-Butoxyethanol</p>
<b>DSD (EEC)</b>	<p>R22- Harmful if swallowed.</p> <p>R36/38- Irritating to eyes and skin.</p>
<b>International Regulations Lists</b>	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.)**



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 1/18/2005.

Verified by CRushton.

Printed 1/18/2005.

**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 1/18/2005.

**Extreme**

Page: 6/6

**Continued on Next Page**