




# Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

	E	HCS CLASS: Corrosive liquid.
WHMIS (Pictograms)	WHMIS (Classification)	HCS

## Section 1. Chemical Product and Company Identification

<b>Product Name/ Trade name</b>	<b>Geraldine</b>	<b>Code</b>	<b>104</b>
<b>Synonym</b>	Floor Wax & Finish Stripper/Cleaner	<b>CAS #</b>	Mixture.
<b>Chemical Family</b>	Not available.	<b>Validation Date</b>	2/1/2005
<b>Chemical Formula</b>	Not applicable.	<b>Print Date</b>	2/1/2005
<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		
		<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>
Sodium Metasilicate	6834-92-0	5 - 10	Not available.	Not available.
2-Butoxyethanol	111-76-2	0 - 5	<b>ACGIH (United States).</b> TWA: 20 ppm <b>OSHA (United States).</b> TWA: 50 ppm	ORAL (LD50): Acute: 1746 mg/kg [Rat].
Monoethanolamine	141-43-5	0 - 5	TWA: 3 ppm <b>OSHA (United States).</b> TWA: 6 ppm STEL: 6 ppm	Not available.
Sodium Hydroxide	1310-73-2	0 - 5	<b>OSHA (United States).</b> TWA: 2 mg/m <sup>3</sup>	Not available.
Sodium Xylene Sulfonate	1300-72-7	0 - 5	Not available.	ORAL (LD50): Acute: 650 mg/kg [Rat]. 5939 mg/kg [Mouse].
Sodium Tallate	61790-45-2	0 - 5	Not available.	Not available.
Anionic Surfactant	25155-30-0	0 - 5	Not available.	Not available.
Tetrasodium salt of ethylenediaminetetraacetic acid	64-02-8	0 - 5	Not available.	ORAL (LD50): Acute: 3030 mg/kg [Rat].
Perfume Oil	100-52-7	0 - 5	Not available.	Not available.
Dye	N/A	0 - 5	Not available.	Not available.

### **Section 3. Hazards Identification**

<b>Potential Acute Health Effects</b>	Corrosive to eyes and skin. Eye contact can result in corneal damage or blindness.
<b>Potential Chronic Health Effects</b>	Prolonged exposure may result in skin burns and ulcerations. Repeated or prolonged exposure to the substance can produce lung 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. 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.
<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>	Not available.
<b>Fire Fighting Media and Instructions</b>	N/A
<b>Special Remarks on Fire Hazards</b>	N/A
<b>Special Remarks on Explosion Hazards</b>	N/A

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

<b>Small Spill and Leak</b>	Chemical anti-splash goggles.
<b>Large Spill and Leak</b>	Corrosive liquid. Avoid to runoff to sewers and waterways. Wear Protective Clothing. Absorb with inert Material. Contact you local Emergency planning commission for further instructions.
<b>Personal Protection in Case of a Large Spill</b>	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**

<b>Precautions</b>	Avoid contact with skin and eyes. Avoid breathing vapors or spray mists.
<b>Incompatibility</b>	acids
<b>Storage</b>	Keep only in the original container. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. For Institutional and Commercial Use

## Section 8. Exposure Controls/Personal Protection

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

### Personal Protection

**Eyes** Splash goggles.

**Body** Boots. Disposable outer garments, or impervious garments of equal or greater protection.

**Respiratory** Wear appropriate respirator when ventilation is inadequate.

**Hands** Use chemical resistant, impervious gloves.

### Protective Clothing (Pictograms)



### Exposure Limits

#### 2-Butoxyethanol

TWA: 25 (ppm)

TWA: 50 (ppm) from OSHA (PEL)

#### Sodium Hydroxide

TWA: 2 (mg/m<sup>3</sup>) 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>	Characteristic.
<b>Molecular Weight</b>	Not applicable.	<b>Taste</b>	Not available.
<b>pH</b>	13 to 13.9 [Basic.]	<b>Color</b>	Grayish white.
<b>Boiling/Condensation Point</b>	100°C (212°F)		
<b>Melting/Freezing Point</b>	Not available.		
<b>Critical Temperature</b>	Not available.		
<b>Instability Temperature</b>	Not available.		
<b>Specific Gravity</b>	1.07 (Water = 1)		
<b>Vapor Pressure</b>	20mm Hg @ 68°F		
<b>Vapor Density</b>	>1 (Air = 1)		
<b>Volatility</b>	80		
<b>VOC</b>	Not available.		
<b>Evaporation Rate</b>	<1		
<b>Dispersion Properties</b>	See solubility in water.		

Solubility	not available
The Product is:	Non-flammable.
Auto-ignition Temperature	Not available.
Flash Points	Not available.
Flammable Limits	
Fire Hazards in Presence of Various Substances	Not available.
Explosion Hazards in Presence of Various Substances	Not applicable

### Section 10. Stability and Reactivity Data

Stability	The product is stable.
Incompatibility with Various Substances	acids
Hazardous Decomposition Products	not available

### Section 11. Toxicological Information

Routes of Entry	Absorbed through skin. 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): 140 mg/kg [Rat]. (Sodium Hydroxide). Acute toxicity of the gas (LC50): 926 ppm 4 hour(s) [Mouse]. (2-Butoxyethanol).
Acute Effects on Humans	<p><i>Eyes</i> Very hazardous in case of eye contact (corrosive). Eye contact can result in corneal damage or blindness.</p> <p><i>Skin</i> Very hazardous in case of skin contact (corrosive). Skin contact may produce burns.</p> <p><i>Inhalation</i> Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract.</p> <p><i>Ingestion</i> Very hazardous in case of ingestion. May be fatal if swallowed. May cause burns to mouth, throat, and stomach. May cause headache, dizziness, nausea, vomiting and diarrhea.</p>
Chronic Effects on Humans	Prolonged exposure may result in skin burns and ulcerations. Repeated or prolonged exposure to the substance can produce lung 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	as toxic as the original product.
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 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) E



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.  
**USA Regulatory Lists**

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: 2-Butoxyethanol: immediate health hazard, delayed health hazard; Sodium Hydroxide: immediate health hazard  
 SARA 313 toxic chemical notification and release reporting: 2-Butoxyethanol

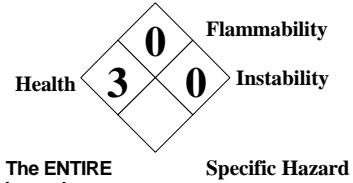
**DSD (EEC)** This product is not classified according to the EU regulations.

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

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

Health	*	3
Flammability		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.

**Section 16. Other Information**

Validated by DThomas on 2/1/2005.

Verified by DThomas.

Printed 2/1/2005.

**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 2/1/2005.

**Geraldine**

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