





# Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

	<b>CLASS D-2B: Material causing other toxic effects (TOXIC).</b>	Class: Irritating substance.
WHMIS (Pictograms)	WHMIS (Classification)	HCS

## Section 1. Chemical Product and Company Identification

<b>Product Name/ Trade name</b>	<b>Betco Best Low Maintenance Floor Finish</b>	<b>Code</b>	<b>644</b>
<b>Synonym</b>	Not available.	<b>Version Number</b>	
<b>Chemical Family</b>	Not available.	<b>Validation Date</b>	3/2/2010
<b>Chemical Formula</b>	Not applicable.	<b>Print Date</b>	3/8/2010
<b>Manufacturer/ Supplier</b>	Betco Corporation 1001 Brown Avenue Toledo, Oh 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>
Acrylic Emulsion	N/A	30 - 45	Not available.	Not available.
Diethylene Glycol Ethyl Ether	111-90-0	5 - 10	TWA: 25 ppm CEIL: 25 ppm	ORAL (LD50): Acute: 5540 mg/kg [Rat].
Tributoxyethyl Phosphate	78-51-3	0 - 5	Not available.	Not available.
Ammonium Hydroxide	1336-21-6	0.5 - 1.5	TWA: 50 ppm <b>OSHA (United States).</b> TWA: 50 ppm STEL: 35 ppm	Not available.
zinc oxide	1314-13-2	<1	Not available.	Not available.

## Section 3. Hazards Identification

<b>Potential Acute Health Effects</b>	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Slightly hazardous in case of inhalation. Non-corrosive for skin. Non-sensitizer for skin. Non-permeator by skin. Non-corrosive to the eyes.
<b>Potential Chronic Health Effects</b>	Repeated or prolonged exposure via ingestion 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

<b>Eye Contact</b>	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.
<b>Skin Contact</b>	After contact with skin, wash immediately with plenty of water.
<b>Inhalation</b>	Evacuate the victim to a safe area as soon as possible.

<b>Ingestion</b>	Have conscious person drink several glasses of water or milk. INDUCE VOMITING by sticking finger in throat. NEVER give an unconscious person anything to ingest. Seek immediate medical attention.
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### Section 5. Fire Fighting Measures

<b>Products of Combustion</b>	Not available.
<b>Fire Fighting Media and Instructions</b>	SMALL FIRE: Use DRY chemical powder. 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>	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
<b>Large Spill and Leak</b>	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Prevent entry into sewers, basements or confined areas; dike if needed.
<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>	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. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes
<b>Incompatibility</b>	alkalis, oxidizing materials
<b>Storage</b>	Keep out of the reach of children. Not for use or storage in or around the home.

### Section 8. Exposure Controls/Personal Protection

<b>Engineering Controls</b>	Good general ventilation should be sufficient to control airborne levels. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
<b>Personal Protection</b>	<p><i>Eyes</i> Safety glasses.</p> <hr/> <p><i>Body</i> Lab coat.</p> <hr/> <p><i>Respiratory</i> Wear appropriate respirator when ventilation is inadequate.</p> <hr/> <p><i>Hands</i> Gloves.</p>
<b>Protective Clothing (Pictograms)</b>	
<b>Exposure Limits</b>	<p><b>Diethylene Glycol Ethyl Ether</b> TWA: 25 CEIL: 25 (ppm)</p> <p>Consult local authorities for acceptable exposure limits.</p>

**Section 9. Physical and Chemical Properties**

<b>Physical State and Appearance</b>	Liquid.	<b>Odor</b>	Characteristic. (Slight.)
<b>Molecular Weight</b>	Not applicable.	<b>Taste</b>	
<b>pH</b>	Not available.	<b>Color</b>	Opaque
<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>	Not available.		
<b>Vapor Pressure</b>			
<b>Vapor Density</b>	>1		
<b>Volatility</b>	>40		
<b>VOC</b>	5 - 7 % By Weight		
<b>Evaporation Rate</b>	<1 compared to Water		
<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: >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>	Containers may explode when heated.		

**Section 10. Stability and Reactivity Data**

<b>Stability</b>	The product is stable.
<b>Incompatibility with Various Substances</b>	alkalis, oxidizing materials
<b>Hazardous Decomposition Products</b>	Not available.

### Section 11. Toxicological Information

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

**Toxicity to Animals** Acute oral toxicity (LD50): 5540 mg/kg [Rat]. (Diethylene Glycol Ethyl Ether).

#### Acute Effects on Humans

**Eyes** Hazardous in case of eye contact (irritant). Non-corrosive to the eyes.

**Skin** Hazardous in case of skin contact (irritant). Non-corrosive for skin. Non-sensitizer for skin. Non-permeator by skin. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**Inhalation** Slightly hazardous in case of inhalation.

**Ingestion** Hazardous in case of ingestion. Harmful if swallowed. May cause headache, dizziness, nausea.

**Chronic Effects on Humans** Repeated or prolonged exposure via ingestion can produce nervous system damage.

**Special Remarks on Toxicity to Animals** Not available.

**Special Remarks on Chronic Effects on Humans** Not available.

### Section 12. Ecological Information

**Ecotoxicity** Not available.

**BOD5 and COD** Not available.

**Products of Biodegradation** Not available.

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

**Special Remarks on the Products of Biodegradation** Not available.

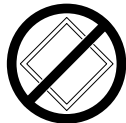
### Section 13. Disposal Considerations

**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** Not controlled under TDG (Canada).



**PIN UN, Proper Shipping Name, PG** Not applicable.

Maritime Transportation Not available.

Special Provisions for Transport Not applicable.

### Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification) CLASS D-2B: Material causing other toxic effects (TOXIC).



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.) Class: Irritating substance.

USA Regulatory Lists  
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Formaldehyde <0.1%  
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: Formaldehyde <0.1%

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Diethylene Glycol Ethyl Ether: fire; Glycol Ether  
SARA 313 toxic chemical notification and release reporting: Diethylene Glycol Ethyl Ether; Glycol Ether

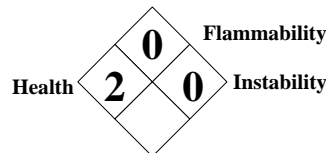
DSD (EEC) This product is not classified according to the EU regulations.

International Regulations Lists No products were found.

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

Health	*	2
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 CRushton on 3/2/2010.

Verified by CRushton.

Printed 3/8/2010.

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.

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