



# Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

 <b>WHMIS (Pictograms)</b>	<b>WHMIS CLASS D-2: Material causing other toxic effects.</b>  <b>WHMIS (Classification)</b>	<b>HCS Class: Irritating substance. HCS Class: Toxic.</b>  <b>HCS</b>
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## Section 1. Chemical Product and Company Identification

<b>Product Name/ Trade name</b> <b>Noil</b>	<b>Code</b> <b>149</b>
<b>Synonym</b> Water-Based Dust Mop Treatment	<b>CAS #</b> Not applicable.
<b>Chemical Family</b> Not available.	<b>Validation Date</b> 3/2/2007
<b>Chemical Formula</b> Not applicable.	<b>Print Date</b> 3/23/2007
<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>Protective Clothing</b>  
<b>DSL/ NDSL</b> All components listed unless noted elsewhere on this MSDS	

## Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
Ethylene Glycol	107-21-1	20 - 25	<b>ACGIH TLV (United States).</b> : 100 mg/m <sup>3</sup> <b>OSHA PEL (United States).</b> CEIL: 50 ppm	ORAL (LD50): Acute: 4700 mg/kg [Rat].

## Section 3. Hazards Identification

<b>Potential Acute Health Effects</b>	Harmful if inhaled. Harmful if absorbed through the skin. Harmful if swallowed. May be fatal if swallowed.
<b>Potential Chronic Health Effects</b>	May aggravate existing respiratory conditions such as asthma. May cause sensitization by skin contact.
<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>	Wash contaminated skin with soap and water.
<b>Inhalation</b>	Evacuate the victim to a safe area as soon as possible. Allow the victim to rest in a well ventilated area.
<b>Ingestion</b>	Can be fatal if inhaled or ingested. INDUCE VOMITING by sticking finger in throat. Seek IMMEDIATE medical attention.

### Section 5. Fire Fighting Measures

Products of Combustion	carbon oxides (CO, CO <sub>2</sub> )
Fire Fighting Media and Instructions	Do not use water jet. Use dry chemical or CO <sub>2</sub> .
Special Remarks on Fire Hazards	No additional remark.
Special Remarks on Explosion Hazards	No additional remark.

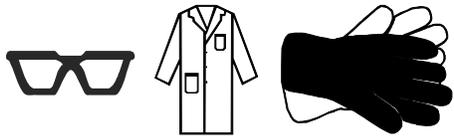
### Section 6. Accidental Release Measures

Small Spill and Leak	Absorb with an inert material and place in an appropriate waste disposal container.
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	After handling, always wash hands thoroughly with soap and water. Avoid contact with skin and eyes.
Incompatibility	acids alkalis
Storage	Keep away from food, drink and animal feeding stuffs. Keep out of reach of children.

### Section 8. Exposure Controls/Personal Protection

Engineering Controls	Good general ventilation should be sufficient to control airborne levels. Provide a readily accessible eyewash facility and quick drench safety shower. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	<p><i>Eyes</i> Safety glasses.</p> <p><i>Body</i> No special protective clothing is required.</p> <p><i>Respiratory</i> Wear appropriate respirator when ventilation is inadequate.</p> <p><i>Hands</i> Gloves.</p>
Protective Clothing (Pictograms)	
Exposure Limits	See Section 2.

### Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Pleasant.
Molecular Weight	Not applicable.	Taste	Not available.
pH	8 to 9.5 [Basic.]	Color	Green.
Boiling/Condensation Point	93°C (199.4°F)		
Melting/Freezing Point	Not Determined		
Critical Temperature	Not Determined		
Instability Temperature	Not available.		

<b>Specific Gravity</b>	1.03 (Water = 1)
<b>Vapor Pressure</b>	<20 mm of Hg (@ 20°C)
<b>Vapor Density</b>	>1 (Air = 1)
<b>Volatility</b>	Not available.
<b>VOC</b>	0 lbs/ gallon
<b>Evaporation Rate</b>	<1 compared to Water
<b>Dispersion Properties</b>	See solubility in water.
<b>Solubility</b>	Easily soluble in cold water.
<b>The Product is:</b>	May be combustible at high temperature.
<b>Auto-ignition Temperature</b>	398°C (748.4°F)
<b>Flash Points</b>	None to boiling
<b>Flammable Limits</b>	Lower: 3.2% Upper: >13%
<b>Fire Hazards in Presence of Various Substances</b>	Slightly flammable to flammable in presence of open flames, sparks, shocks, heat, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis, moisture.
<b>Explosion Hazards in Presence of Various Substances</b>	Not applicable

### **Section 10. Stability and Reactivity Data**

<b>Stability</b>	The product is stable.
<b>Incompatibility with Various Substances</b>	acids alkalis
<b>Hazardous Decomposition Products</b>	Will not occur.

### **Section 11. Toxicological Information**

<b>Routes of Entry</b>	Eye Contact Ingestion. INHALATION Skin contact.
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 4000 mg/kg [Rat]. (Triethanolamine).
<b>Acute Effects on Humans</b>	<p><i>Eyes</i> This product is an eye irritant.</p> <p><i>Skin</i> Skin and eye irritant.</p> <p><i>Inhalation</i> Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.</p> <p><i>Ingestion</i> Can be fatal if inhaled or ingested. Vomiting, Diarrhea, Dizziness, Drowsiness, Thirst, Faintness, weakness, circulatory collapse and coma.</p>
<b>Chronic Effects on Humans</b>	May aggravate existing respiratory conditions such as asthma. May cause sensitization by skin contact.
<b>Special Remarks on Toxicity to Animals</b>	No additional remark.
<b>Special Remarks on Chronic Effects on Humans</b>	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 TDG Class 9.2: Environmentally hazardous material.



PIN UN, Proper Shipping Name, PG Environmentally hazardous substance n.o.s.

Maritime Transportation

Special Provisions for Transport 091 Transport by aircraft must comply with ICAO instruction.

### Section 15. Other Regulatory Information and Pictograms

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



Regulatory Lists No products were found.

Other Regulations The following component is listed under the Canadian Hazardous Products Act: Ethylene Glycol CAS# 107-21-1

Other Classifications	<b>HCS (U.S.A.)</b>	HCS Class: Irritating substance. HCS Class: Toxic.
	<b>USA Regulatory Lists</b>	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

Pennsylvania RTK: Ethylene Glycol: (environmental hazard); Propylene Glycol  
 Massachusetts RTK: Ethylene Oxide  
 New Jersey: Ethylene Glycol  
 New Jersey spill list: Ethylene Glycol  
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Ethylene Glycol  
 SARA 313 toxic chemical notification and release reporting: Ethylene Glycol

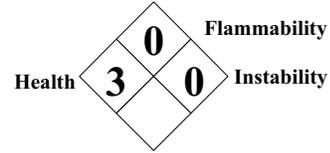
**DSD (EEC)** R36/38- Irritating to eyes and skin.

**International Regulations Lists** Not Determined

**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 3/2/2007.

Verified by CRushton.

Printed 3/23/2007.

**Information Contact Betco Corporation**  
 1001 Brown Avenue  
 Toledo, Ohio 43607  
 (419) 241-2156

Notice to Read:

*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 3/2/2007.

**Noil**

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