



Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200



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

HCS Class: Irritating substance. HCS Class: Toxic.

WHMIS (Pictograms)

WHMIS (Classification)

HCS

Section 1. Chemical Product and Company Identification

Product Name/ Trade name	Noil	Code	149
Synonym	Water-Based Dust Mop Treatment	CAS #	Not applicable.
Chemical Family	Not available.	Validation Date	3/2/2007
Chemical Formula	Not applicable.	Print Date	3/23/2007
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		
		Protective Clothing 	

Section 2. Composition and Information on Ingredients

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

Section 3. Hazards Identification

Potential Acute Health Effects	Harmful if inhaled. Harmful if absorbed through the skin. Harmful if swallowed. May be fatal if swallowed.
Potential Chronic Health Effects	May aggravate existing respiratory conditions such as asthma. May cause sensitization by skin contact.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4. First Aid Measures

Eye Contact	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open.
Skin Contact	Wash contaminated skin with soap and water.
Inhalation	Evacuate the victim to a safe area as soon as possible. Allow the victim to rest in a well ventilated area.
Ingestion	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 ₂)
Fire Fighting Media and Instructions	Do not use water jet. Use dry chemical or CO ₂ .
Special Remarks on Fire Hazards	No additional remark.
Special Remarks on Explosion Hazards	No additional remark.

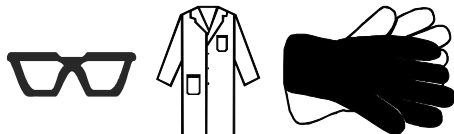
Section 6. Accidental Release Measures

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	Eyes	Safety glasses.	
	Body	No special protective clothing is required.	
	Respiratory	Wear appropriate respirator when ventilation is inadequate.	
	Hands	Gloves.	
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.		

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

Section 11. Toxicological Information

Routes of Entry	Eye Contact Ingestion. INHALATION Skin contact.
Toxicity to Animals	Acute oral toxicity (LD50): 4000 mg/kg [Rat]. (Triethanolamine).
Acute Effects on Humans	
	<i>Eyes</i> This product is an eye irritant.
	<i>Skin</i> Skin and eye irritant.
	<i>Inhalation</i> Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.
	<i>Ingestion</i> Can be fatal if inhaled or ingested. Vomiting, Diarrhea, Dizziness, Drowsiness, Thirst, Faintness, weakness, circulatory collapse and coma.
Chronic Effects on Humans	May aggravate existing respiratory conditions such as asthma. May cause sensitization by skin contact.
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 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

HCS (U.S.A.)

HCS Class: Irritating substance. HCS Class: Toxic.

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

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

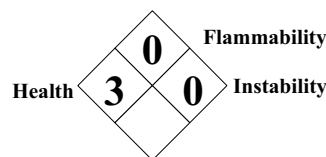
DSD (EEC) R36/38- Irritating to eyes and skin.

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 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 3/2/2007.

Noil

Page: 5/5

Continued on Next Page