





Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

 WHMIS (Pictograms)	WHMIS CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). WHMIS (Classification)	HCS CLASS: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F). HCS
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Section 1. Chemical Product and Company Identification

Product Name/ Trade name	WC117	Code	117
Synonym	Waterless Cleaner	CAS #	Mixture.
Chemical Family	N/A	Validation Date	3/20/2004
Chemical Formula	Not applicable.	Print Date	3/27/2004
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
1) Petroleum Distillates	64742-48-9	95-100	TWA: 500 (ppm) TWA: 100 (ppm) from OSHA (PEL) [United States]	Not available.

Section 3. Hazards Identification

Potential Acute Health Effects	Skin and eye irritant. HARMFUL IF INHALED. Harmful if swallowed.
Potential Chronic Health Effects	Repeated skin exposure can produce local skin destruction, or dermatitis.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Section 5. Fire Fighting Measures

Products of Combustion	carbon oxides (CO, CO2)
Fire Fighting Media and Instructions	Foam, CO2, or dry chemical.
Special Remarks on Fire Hazards	Do not use water.
Special Remarks on Explosion Hazards	Drums heated by a fire can explode.

Section 6. Accidental Release Measures

Small Spill and Leak	Safety glasses recommended.
Large Spill and Leak	Absorb with DRY earth, sand or other non-combustible material.
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	Avoid contact with skin and eyes. DO NOT ingest.
Incompatibility	Not available.
Storage	Combustible materials should be stored away from extreme heat and away from strong oxidizing agents. 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

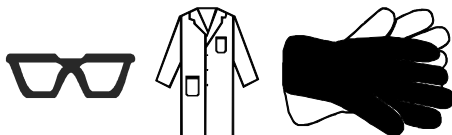
Eyes Splash goggles.

Body Lab coat.

Respiratory Wear appropriate respirator when ventilation is inadequate.

Hands Gloves.

Protective Clothing (Pictograms)



Exposure Limits

Petroleum Distillates
TWA: 500 (ppm)
TWA: 100 (ppm) from OSHA (PEL)

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid	Odor	Solvent
Molecular Weight	Not applicable.	Taste	Not available.
pH	N/A	Color	Colorless.
Boiling/Condensation Point	318 to 390°F		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		

Instability Temperature	Not available.
Specific Gravity	0.78 (Water = 1)
Vapor Pressure	2mm Hg @ 68°F
Vapor Density	>1 (Air = 1)
Volatility	100
VOC	
Evaporation Rate	(Water=1):>1
Dispersion Properties	Not dispersed in cold water, hot water, methanol, diethyl ether, n-octanol, acetone.
Solubility	Insoluble
The Product is:	COMBUSTIBLE.
Auto-ignition Temperature	N/A
Flash Points	CLOSED CUP: 52.778°C (127°F).
Flammable Limits	LOWER: 0.7% UPPER: 6%
Fire Hazards in Presence of Various Substances	COMBUSTIBLE.
Explosion Hazards in Presence of Various Substances	Containers may explode when heated.

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Incompatibility with Various Substances	Not available.
Hazardous Decomposition Products	Carbon Dioxide

Section 11. Toxicological Information

Routes of Entry	Skin contact. INHALATION Ingestion. Eye Contact
Toxicity to Animals	Acute oral toxicity (LD50): 5000 mg/kg [Rat]. (Propylene Glycol).
Acute Effects on Humans	
<i>Eyes</i>	Very hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. Blurred vision.
<i>Skin</i>	Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
<i>Inhalation</i>	Very hazardous in case of inhalation. Dizziness, weakness, and fatigue.
<i>Ingestion</i>	Can cause irritation of the gastrointestinal tract, nausea, vomiting, and diarrhea. Aspiration into the lungs can cause chemical pneumonitis.
Chronic Effects on Humans	Repeated skin exposure can produce local skin destruction, or dermatitis.
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	Not Available
Toxicity of the Products of Biodegradation	Not Applicable
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	3	
PIN UN, Proper Shipping Name, PG	Shipping name: Combustible Liquid NOS UNNA: 1993 PG: III	
Maritime Transportation	Not available.	
Special Provisions for Transport	Not available.	

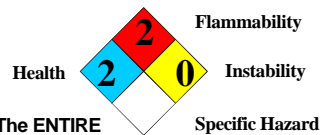
Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification)	WHMIS CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).	
Regulatory Lists	No products were found.	
Other Regulations		
Other Classifications	HCS (U.S.A.)	HCS CLASS: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F).
	USA Regulatory Lists	
	DSD (EEC)	
International Regulations Lists	No products were found.	

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

Health	2
Flammability	2
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 3/20/2004.

Verified by CRushton.

Printed 3/27/2004.

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 3/20/2004.

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