





Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

	Not controlled under WHMIS (Canada).	Not controlled under the HCS (United States).
WHMIS (Pictograms)	WHMIS (Classification)	HCS

Section 1. Chemical Product and Company Identification

Product Name/ Trade name	Top Flite	Code	150
Synonym	High Performance Detergent	CAS #	Not applicable.
Chemical Family	Not available.	Validation Date	3/22/2004
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) Tetrasodium salt of ethylenediaminetetraacetic acid	64-02-8	<10	Not available.	ORAL (LD50): Acute: 3030 mg/kg [Rat].
2) Nonionic Surfactant	9016-45-9	<5	Not available.	Not available.
3) Anionic Surfactant	25155-30-0	<5	Not available.	Not available.
4) Anionic Surfactant	5324-84-5	<1	Not available.	Not available.

Section 3. Hazards Identification

Potential Acute Health Effects	No specific information is available in our database regarding the acute toxic effects of this material for humans. This product may irritate eyes upon contact. Inflammation of the eye is characterized by redness, watering, and itching. Irritating to mouth, throat and stomach.
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	In case of contact with eyes, rinse immediately with plenty of water.
Skin Contact	After contact with skin, wash immediately with plenty of water.
Inhalation	NO known EFFECT according to our data base.
Ingestion	Have conscious person drink several glasses of water or milk. Seek medical attention.

Section 5. Fire Fighting Measures

Products of Combustion	Not available.
Fire Fighting Media and Instructions	Non-flammable substance.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

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.
Incompatibility	Not available.
Storage	Keep out of the reach of children. Not for use or storage in or around the home.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Good general ventilation should be sufficient to control airborne levels.
Personal Protection	
<i>Eyes</i>	Safety glasses.
<i>Body</i>	No special protective clothing is required.
<i>Respiratory</i>	A respirator is not needed under normal and intended conditions of product use.
<i>Hands</i>	Gloves.

Protective Clothing (Pictograms)



Exposure Limits Not available.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Pleasant.
Molecular Weight	Not applicable.	Taste	Not available.
pH	10 to 11 [Basic.]	Color	Green. (Light.)
Boiling/Condensation Point	215°F initial		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	1.04 (Water = 1)		
Vapor Pressure	17.54 mm Hg @ 68 F		

Vapor Density	>1 (Air = 1)
Volatility	85
BOC	Not available.
Evaporation Rate	<1 compared to Water
Dispersion Properties	See solubility in water.
Solubility	Easily soluble in cold water.
The Product is:	Non-flammable.
Auto-ignition Temperature	Not available.
Flash Points	None to boiling (TCC)
Flammable Limits	Not available.
Fire Hazards in Presence of Various Substances	No specific information is available in our database regarding the flammability of this product in presence of various materials.
Explosion Hazards in Presence of Various Substances	No specific information is available in our database regarding the product's risks of explosion in the presence of various materials.

Section 10. Stability and Reactivity Data

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

Section 11. Toxicological Information

Routes of Entry	Eye Contact Ingestion. Skin contact.
Toxicity to Animals	Acute oral toxicity (LD50): 3030 mg/kg [Rat]. (Tetrasodium EDTA).
Acute Effects on Humans	<p><i>Eyes</i> Irritant. Inflammation of the eye is characterized by redness, watering, and itching.</p> <p><i>Skin</i> Slightly irritating</p> <p><i>Inhalation</i> Non-irritating to the respiratory system.</p> <p><i>Ingestion</i> May cause nausea, vomiting and diarrhea. May cause gastrointestinal discomfort.</p>
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	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	Not controlled under TDG (Canada).	
PIN UN, Proper Shipping Name, PG	Not applicable.	
Maritime Transportation	Not available.	
Special Provisions for Transport	Not applicable.	

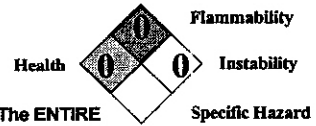
Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification)	Not controlled under WHMIS (Canada).	
Regulatory Lists	No products were found.	
Other Regulations	Not available. or of its ingredients	
Other Classifications	HCS (U.S.A.)	Not controlled under the HCS (United States).
	USA Regulatory Lists	None Found
		None Found
	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	1
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 3/22/2004.

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 3/22/2004.

Top Flite

Page: 5/5

Continued on Next Page