

## Material Safety Data Sheet This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200



**CLASS E: Corrosive liquid.** 

Class: Flammable liquid having a flash point lower than 37.8°C (100°F). Class: Corrosive material

WHMIS (Pictograms)

WHMIS (Classification)

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Section 1. Chemical Product and Company Identification		ication
Product Name/ Trade name	Top Flite Plus	Code 059
Synonym	All Purpose Cleaner	CAS # Mixture.
Chemical Family	Not available.	Validation Date 6/27/2006
Chemical Formula	Not applicable.	<b>Print Date</b> 6/27/2006
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 exemp	9
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	LC50/LD50
2-Butoxyethanol	111-76-2	5-10	TWA: 20 (ppm) from ACGIH (TLV) [United States] TWA: 50 (ppm) from OSHA (PEL) [United States]	ORAL (LD50): Acute: 1746 mg/kg [Rat].
Liquified Petroleum Gas	68476-85-7	0-5	TWA: 1000 (ppm) TWA: 1000 (ppm) from OSHA (PEL) [United States]	Not available.
Tetrasodium salt of ethylendiaminetetraacetic acid	64-02-8	0-5	Not available.	ORAL (LD50): Acute: 3030 mg/kg [Rat].
Sodium Metasilicate	6834-92-0	0-5	Not available.	Not available.
Amphoteric Surfactant	68298-20-4	0-5	Not available.	Not available.
Coconut Diethanolamide	8051-30-7	0-5	Not available.	Not available.
Monoethanolamine	141-43-5	0-5	TWA: 3 (ppm) TWA: 6 (ppm) from OSHA (PEL) [United States] STEL: 6 (ppm)	Not available.
Nonionic Surfactant	9016-45-9	0-5	Not available.	Not available.

Section 3. Hazards Identification	
Potential Acute Health Effects	Extremely hazardous in case of ingestion. Very hazardous in case of skin contact (corrosive, irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of inhalation (lung irritant). Non-sensitizer for skin. Non-permeator by skin. Non-sensitizer for lungs. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Potential Chronic Health Effects	The amount of tissue damage depends on length of contact. Severe over-exposure can produce lung damage, choking, unconsciousness or death.
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. DO NOT use an eye ointment. Seek medical attention.	
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.	
Inhalation	Evacuate the victim to a safe area as soon as possible. Seek medical attention.	
Ingestion	DO NOT induce vomiting. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.	

Section 5. Fire Fighting Measures	
<b>Products of Combustion</b>	Not available.
Fire Fighting Media and Instructions	Use DRY chemicals, CO2, alcohol foam or water spray.
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	Dilute with water and mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container. If necessary: <b>Neutralize the residue with a dilute solution of acetic acid</b>
Large Spill and Leak	Corrosive liquid. Do not touch damaged container or spilled material. 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	Keep locked up. Keep container dry. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.	
Incompatibility	acids oxidizing agents	
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** 

Eyes Splash goggles.

Body Long Pants and Long Sleeves to avoid skin cotact.

Respiratory A respirator is not needed under normal and intended conditions of product use.

Hands Gloves (impervious).

Protective Clothing (Pictograms)



**Exposure Limits** 2-Butoxyethanol

TWA: 25 (ppm)

TWA: 50 (ppm) from OSHA (PEL)

**Liquified Petroleum Gas** 

TWA: 1000 (ppm)

TWA: 1000 (ppm) from OSHA (PEL)

Monoethanolamine

TWA: 3 (ppm)

TWA: 6 (ppm) from OSHA (PEL)

STEL: 6 (ppm)

Consult local authorities for acceptable exposure limits.

Physical State and	tal and Chemical Propertie  Liquid. (Spray Mist)	Odor	Pleasant.
Appearance		Outi	i icasant.
Molecular Weight	Not applicable.	Taste	Not available.
рН	12 to 13 [Basic.]	Color	Colorless.
Boiling/Condensation Point	Not available.		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
<b>Instability Temperature</b>	Not available.		
Specific Gravity	Not available.		
Vapor Pressure	2068.4 mm of Hg (@ 20°C)		
Vapor Density	>1 (Air = 1)		
Volatility	95% (v/v).		
VOC	20 (%)		
Evaporation Rate	<1 compared to Water		
Dispersion Properties	See solubility in water.		
Solubility	Easily soluble in cold water, hot	water.	
The Product is:	Flammable.		

Auto-ignition Temperature	Not available.
Flash Points	CLOSED CUP: Between -18°C (0°F) and 23°C (73°F). (Tagliabue.).
Flammable Limits	LOWER: 1.8% UPPER: <13%
Fire Hazards in Presence of Various Substances	Extremely flammable in presence of open flames and sparks. Highly flammable in presence of heat. Slightly flammable to flammable in presence of shocks. Non-flammable in presence of oxidizing materials.
Explosion Hazards in Presence of Various Substances	Explosive in presence of open flames and sparks, of heat.

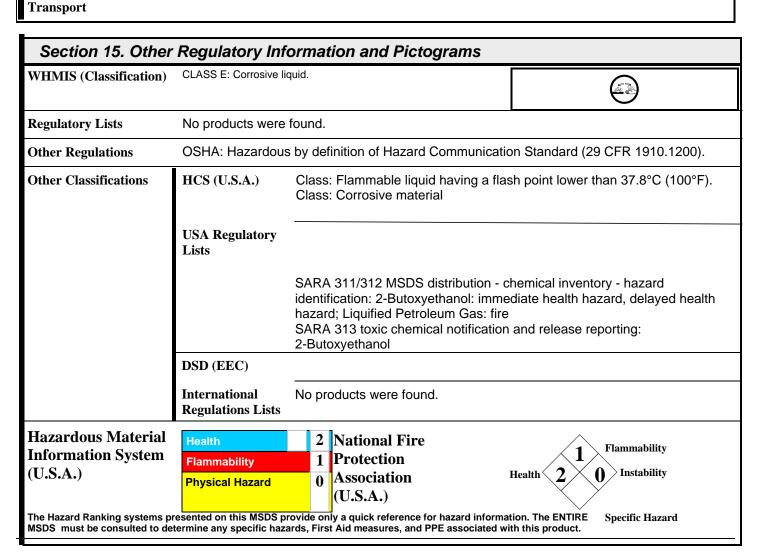
Section 10. Stability and Reactivity Data	
Stability	The product is stable.
Incompatibility with Various Substances	acids oxidizing agents
Hazardous Decomposition Not available. Products	

Section 11. Toxicological Information		
<b>Routes of Entry</b>	Absorbed through skin. Eye contact. Inhalation. Ingestion.	
Toxicity to Animals	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.  Acute oral toxicity (LD50): 1746 mg/kg [Rat]. (2-Butoxyethanol).  Acute toxicity of the gas (LC50): 926 ppm 4 hour(s) [Mouse]. (2-Butoxyethanol).	
<b>Acute Effects on Humans</b>		
Eyes	Very hazardous in case of eye contact (irritant). Corrosive to eyes on contact.	
Skin	Very hazardous in case of skin contact (corrosive, irritant). Skin contact may produce burns.	
Inhalation	Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract.	
Ingestion	Extremely hazardous in case of ingestion. May be fatal if swallowed. May cause burns to mouth, throat, and stomach.	
Chronic Effects on Humans	The amount of tissue damage depends on length of contact. Severe over-exposure can produce lung damage, choking, unconsciousness or death.	
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 Biodegradation	of 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 a TDG controlled material. PIN UN, Proper Shipping Not applicable. Name, PG Maritime Transportation Not available. Special Provisions for Not available.



Section 16. Other Information		
Validated by CRushton on 6/27/2006.	Verified by CRushton. Printed 6/27/2006.	
Information Contact Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607		
Notice to Reade		

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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