

Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200



CLASS D-2B: Material causing other toxic effects (TOXIC). WHMIS Class E: Corrosive liquid.

Class: Irritating substance. HCS Class: Corrosive liquid.

WHMIS (Pictograms)		WHMIS (Classification)				HCS
Section 1. Chemical Product and Company Identification						
Product Name/ Trade name	TB F	Plus Spray	Cod	e		093
Synonym	Pheno	lic Disinfectant/Deodorant	CAS	S #		Mixture.
Chemical Family	Not av	ailable.	Vali	dation D	ate	3/20/2004
Chemical Formula	Not ap	plicable.	Prin	t Date		3/27/2004
Manufacturer/ Supplier	1001 E Toledo	Corporation Brown Avenue b, Oh 43607 241-2156	In Ca Emer	<u>se of</u> gency	Che	mtrec (800) 424-9300
TSCA	TSCA I	inventory: All components listed or are exempt from listing				
DSL/ NDSL	All com	ponents listed unless noted elsewhere on this MSDS			Pro	otective Clothing

Section 2. Composition and Information on Ingredients				
Name	CAS#	% by Weight	Exposure Limits	$ ext{LC}_{50}/ ext{LD}_{50}$
1) Ethyl Alcohol	64-17-5	44.3	TWA: 1000 (ppm) TWA: 1000 (ppm) from OSHA (PEL) [United States]	ORAL (LD50): Acute: 7060 mg/kg [Rat].
2) Liquified Petroleum Gas	68476-85-7	20-25	TWA: 1000 (ppm) TWA: 1000 (ppm) from OSHA (PEL) [United States]	Not available.
3) Ammonium Hydroxide	1336-21-6	0-5	TWA: 50 (ppm) TWA: 50 (ppm) from OSHA (PEL) [United States] STEL: 35 (ppm)	Not available.
4) Propylene Glycol	57-55-6	0-5	Not available.	ORAL (LD50): Acute: 5000 mg/kg [Rat].
5) Quaternary Ammonium Chloride6) Sodium Nitrite7) O-Phenylphenol	68391-01-5 7632-00-0 90-43-7	0.33 0.3 0.25	Not available. Not available. Not available.	Not available. Not available. Not available.

Section 3. Hazards Identification

Potential Acute Health Effects Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Slightly

hazardous in case of inhalation. Non-sensitizer for skin. 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

Over-exposure by inhalation may cause respiratory irritation. Prolonged exposure may result in skin

burns and ulcerations.

Carcinogenic Effects Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4. First	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 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	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. Have conscious person drink egg whites, gelatin solution, or if these are not available drink large quantities of water. Seek immediate medical attention.		

Section 5. Fire Fighting Measures		
Products of Combustion	Not available.	
Fire Fighting Media and Instructions	Foam, dry chemical, CO2, water.	
Special Remarks on Fire Hazards	Wear self-contained breathing apparatus.	
Special Remarks on Explosion Hazards	Heated cans may burst.	

Section 6. Accidental Release Measures		
Small Spill and Leak	Safety glasses recommended.	
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	Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes	
Incompatibility	oxidizing agents reducing agents Incompatible with ammonia.	
Storage	Keep out of the reach of children. Not for use or storage in or around the home.	

-	Controls/Personal Protection
Engineering Controls	Good general ventilation should be sufficient to control airborne levels.
Personal Protection	
Eyes	Safety glasses.
Body	Lab coat.
Respiratory	Not applicable.
Hands	Gloves.
Protective Clothing (Pictograms)	

Exposure Limits

Ethyl Alcohol
TWA: 1000 (ppm)
TWA: 1000 (ppm) from OSHA (PEL) [United States]
Liquified Petroleum Gas
TWA: 1000 (ppm)
TWA: 1000 (ppm) from OSHA (PEL) [United States]
Ammonium Hydroxide
TWA: 50 (ppm)
TWA: 50 (ppm) from OSHA (PEL) [United States]
STEL: 35 (ppm)

Consult local authorities for acceptable exposure limits.

Section 9. Physical a	and Chemical Properties		
Physical State and Appearance	Liquid.	Odor	Floral.
Molecular Weight	Not applicable.	Taste	Not available.
рН	Not available.	Color	Colorless.
Boiling/Condensation Point	N/A		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature			
Specific Gravity	Not available.		
Vapor Pressure	60 psig @ 70°F		
Vapor Density	>1 (Air = 1)		
Volatility	Not available.		
voc	Not available.		
Evaporation Rate	>1		
Dispersion Properties	Not available.		
Solubility	Not available.		
The Product is:	May be combustible at high temperature.		
Auto-ignition Temperature	Not available.		
Flash Points	Not available.		
Flammable Limits	LOWER: 1.8% UPPER: 8.5%		
Fire Hazards in Presence of Various Substances	Not available.		
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	oxidizing agents reducing agents Incompatible with ammonia.	
Hazardous Decomposition Products	Will not occur.	

Section 11. Toxicolog	gical Information
Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 5000 mg/kg [Rat]. (Propylene Glycol).
Acute Effects on Humans	
Eyes	Very hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.
Skin	Very hazardous in case of skin contact (irritant). Non-sensitizer for skin. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Inhalation	Slightly hazardous in case of inhalation.
Ingestion	Very hazardous in case of ingestion.
Chronic Effects on Humans	Over-exposure by inhalation may cause respiratory irritation. Prolonged exposure may result in skin burns and ulcerations.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.

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	Not available.		

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 Not applicable. Name, PG Maritime Transportation Not available. **Special Provisions for** Not applicable. Transport

WHMIS (Classification)	CLASS D-2B: Material causing other toxic effects (TOXIC). WHMIS Class E: Corrosive liquid.		T	
Regulatory Lists	No products were found.			
Other Regulations	OSHA: Hazardous	s by definition of Hazard Communication Standard (29 CFR 1910.1200).		
Other Classifications	HCS (U.S.A.)	Class: Irritating substance. HCS Class: Corrosive liquid.		
	USA Regulatory Lists	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: O-Phenylphenol SARA 311/312 MSDS distribution - chemical inventory - hazard identification:		
		Liquified Petroleum Gas: fire; Sodium Nitrite SARA 313 toxic chemical notification and release reporting: Sodium Nitrite		
	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 Flammability Physical Hazard	2 National Fire Protection Association (U.S.A.)	Flammability Health 1 1 1 Instability	

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.

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