

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



CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).

HCS CLASS: Flammable liquid having a flash point lower than 37.8°C (100°F).

WHMIS (Pictograms)

WHMIS (Classification)

HCS

Section 1. Chem	Section 1. Chemical Product and Company Identification		
Product Name/ Trade name	TB Plus	Code	320
Synonym	Phenolic Cleaner/Disinfectant/Deodorant	CAS#	Not applicable.
Chemical Family	Not available.	Validation Date	3/26/2004
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	nemtrec (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	. I	Protective Clothing

Name	CAS#	% by Weight	Exposure Limits	$\mathrm{LC}_{50}/\mathrm{LD}_{50}$
1) Isopropyl Alcohol	67-63-0	15-20	TWA: 400 (ppm) TWA: 400 (ppm) from OSHA (PEL) [United States] STEL: 500 (ppm)	ORAL (LD50): Acute: 16971 mg/kg [Rat].
2) Anionic Surfactant	25155-30-0	5-10	Not available.	Not available.
O-Benzyl-P-Chlorophenol	120-32-1	5	Not available.	Not available.
4) O-Phenylphenol	90-43-7	4.25	Not available.	Not available.
5) P-Tertiary Amylphenol	80-46-6	1.25	Not available.	Not available.
6) Sodium Xylene Sulfonate	1300-72-7	1-5	Not available.	ORAL (LD50): Acute: 650 mg/kg [Rat]. 5939 mg/kg [Mouse].

Section 3. Hazards Identification	

Potential Acute Health Effects Corrosive to eyes. Harmful if inhaled. Harmful if swallowed.

Potential Chronic Health

Effects

Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Carcinogenic Effects

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

Section 4. First Aid Measures		
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention.	
Skin Contact	Wash with plenty of soap and water. Seek medical attention if irritation persists.	
Inhalation	Evacuate the victim to a safe area as soon as possible.	
Ingestion	Promptly drink a large quantity of water. Avoid alcohol. Seek medical attention immediately.	

Section 5. Fire Fighting Measures		
Products of Combustion	Not available.	
Fire Fighting Media and Instructions	Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog.	
Special Remarks on Fire Hazards	Water is very effective.	
Special Remarks on Explosion Hazards	Drums heated by a fire can explode.	

Section 6. Accidental Release Measures		
Small Spill and Leak	Chemical anti-splash goggles.	
Large Spill and Leak	Flammable liquid, soluble or dispersed in water. Absorb with DRY earth, sand or other non-combustible material. Call for assistance on 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. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.	
Incompatibility	Strong oxidizers.	
Storage	Flammable materials should be stored in a separate safety storage cabinet or room. 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	Safety glasses.
Body	
Respiratory	Wear appropriate respirator when ventilation is inadequate.
Hands	Gloves (impervious).
Protective Clothing (Pictograms)	
-	Isopropyl Alcohol TWA: 400 (ppm) TWA: 400 (ppm) from OSHA (PEL) STEL: 500 (ppm)

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties			
Physical State and Appearance	Liquid.	Odor	Characteristic.
Molecular Weight	Not applicable.	Taste	Not available.
pH	9.5 to 10 [Basic.]	Color	Amber.
Boiling/Condensation Point	207°F initial		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	1.008 (Water = 1)		
Vapor Pressure	25mm Hg @ 68°F		
Vapor Density	>1 (Air = 1)		
Volatility	75		
voc	204.9 (g/l).		
Evaporation Rate	>1		
Dispersion Properties	See solubility in water.		
Solubility	Easily soluble in cold water.		
The Product is:	Flammable.		
Auto-ignition Temperature	Not available.		
Flash Points	CLOSED CUP: 16.88888889°C (62.4°F).		
Flammable Limits	Not available.		
Fire Hazards in Presence of Various Substances	No specific information is available in our d presence of various materials.	atabase re	garding the flammability of this product in
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	Strong oxidizers.
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): 3030 mg/kg [Rat]. (Tetrasodium EDTA).
Acute Effects on Humans	
Eyes	Severe irritant. May cause damage to eyes.
Skin	Severe skin irritant.
Inhalation	Irritant.
Ingestion	Harmful or fatal if swallowed.
Chronic Effects on Humans	Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.
Special Remarks on Toxicity to Animals	No additional remark.
Special Remarks on Chronic Effects on Humans	No additional remark.

Section 12. Ecologic	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 Class 3: Flammable liquid.



PIN UN, Proper Shipping Name, PG

Shipping name: FLAMMABLE LIQUIDS, N.O.S. UNNA: UN1993 PG: II

Maritime Transportation Not available.

Special Provisions for

Transport

Not available.

Section 15. Other Regulatory Information and Pictograms				
WHMIS (Classification)	CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).			
Regulatory Lists	No products were found.			
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).			
Other Classifications	HCS (U.S.A.)	HCS CLASS: Flammable liquid having a flash point lower than 37.8°C (100°F).		
	USA Regulatory Lists	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: O-Phenylphenol 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: Isopropyl Alcohol: fire		
	DSD (EEC)	R11- Highly flammable.		
	International Regulations Lists	No products were found.		
		National Fire Protection Association (U.S.A.) National Fire Protection Flammability Instability Vide only a quick reference for hazard information. The ENTIRE ds, First Aid measures, and PPE associated with this product.		

Section 16. Other Information				
Validated by CRushton on 3/26/2004.		Verified by CRushton. Printed 3/27/2004.		
Information Contact	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607			
for the accuracy or completent Final determination of suitab	ess of the information contained herei	nsibility of the user. All materials may present unknown hazards and should be used with caution. Although		

Validated on 3/26/2004. TB Plus Page: 5/5

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