




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. 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	3/2/2007
Chemical Formula	Not applicable.	Print Date	3/24/2007
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
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].
Anionic Surfactant	25155-30-0	5-10	Not available.	Not available.
O-Benzyl-P-Chlorophenol	120-32-1	5	Not available.	Not available.
O-Phenylphenol	90-43-7	4.25	Not available.	Not available.
P-Tertiary Amylphenol	80-46-6	1.25	Not available.	Not available.
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)



Exposure Limits

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 database regarding the flammability of this product in presence of various materials.		
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. Toxicological 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	<i>Eyes</i> Severe irritant. May cause damage to eyes. <i>Skin</i> Severe skin irritant. <i>Inhalation</i> Irritant. <i>Ingestion</i> 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. 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.

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.

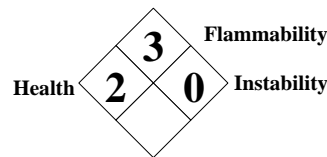
Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

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.

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

Health	3
Flammability	3
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. **Specific Hazard**

Section 16. Other Information

Validated by CRushton on 3/2/2007.

Verified by CRushton.

Printed 3/24/2007.

Information Contact Betco Corporation
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Toledo, Ohio 43607

Notice to Read:

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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