

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



WHMIS CLASS D-2: Material causing other toxic effects. Controlled under the Pest Control Products Act (PCP)

HCS CLASS: Corrosive liquid.

WHMIS (Pictograms)

WHMIS (Classification)

HCS

Section 1. Chemical Product and Company Identification			
Product Name/ Trade name	Betco 256	Code	306
Synonym	Cleaner/Disinfectant/Deodorizer/Fungicide/Mildewstat/Virucide	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 Ch 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	P	rotective Clothing

Section 2. Composition and Information on Ingredients				
Name	CAS#	% by Weight	Exposure Limits	$ ext{LC}_{50}/ ext{LD}_{50}$
Quaternary Ammonium Chloride Dioctyl Dimethyl Ammonium	7173-51-5 5538-94-3	3.75 1.5	Not available. Not available.	Not available. Not available.
Chloride 3) Quaternary Ammonium Chloride 4) Quaternary Ammonium Chloride	68424-95-3 68424-85-1	2.25 5	Not available. Not available.	Not available. Not available.
5) Nonionic Surfactant 6) Tetrasodium salt of ethylendiaminetetraacetic acid	9016-45-9 64-02-8	5-10 1-5	Not available. Not available.	Not available. ORAL (LD50): Acute: 3030 mg/kg [Rat].
7) Sodium Sesquicarbonate	533-96-0	1-5	Not available.	Not available.

Section 3. Hazards Identification		
Potential Acute Health Effect	ts Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Corrosive to eyes and skin.	
Potential Chronic Health Effects	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 Aid Measures	
Eye Contact	Hold eye open and rinse slowly and thoroughly with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center of doctor immediately for treatment advice.
Skin Contact	Rinse skin with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for furthe treatment advice.

Inhalation	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration., preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.
Ingestion	Call a poison control center immediately for treatment advice. Have person sip a glass of water if able to swallow. Do NOT induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person

Section 5. Fire Fighting Measures	
Products of Combustion	Not available.
Fire Fighting Media and Instructions	N/A
Special Remarks on Fire Hazards	N/A
Special Remarks on Explosion Hazards	N/A

Section 6. Accidental Release Measures	
Small Spill and Leak	Chemical anti-splash goggles. Absorb with an inert material and place in an appropriate waste disposal container.
Large Spill and Leak	Avoid to runoff to sewers and waterways. Wear Protective Clothing. Absorb with inert Material. Contact you local Emergency planning commission for further instructions.
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	Avoid contact with skin and eyes. DO NOT ingest.
Incompatibility	None known.
Storage	Keep out of reach of children. For Institutional and Commercial Use

•	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	Not applicable.		
Hands	Gloves (impervious).		
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	9.5 to 10.5 [Basic.]	Color	Red.
Boiling/Condensation Point	214°F initial		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	1.03 (Water = 1)		
Vapor Pressure	20mm Hg @ 68°F		
Vapor Density	>1 (Air = 1)		
Volatility	70		
voc	Not available.		
Evaporation Rate	<1 compared to Water		
Dispersion Properties	See solubility in water.		
Solubility	Easily soluble in cold water.		
The Product is:	May be combustible at high temperature.		
Auto-ignition Temperature	Not available.		
Flash Points	Not available.		
Flammable Limits	Not available.		
Fire Hazards in Presence of Various Substances	No specific information is available in our opresence of various materials.	database r	egarding the flammability of this product in
Explosion Hazards in Presence of Various Substances	Not applicable		

Section 10. Stability and Reactivity Data	
Stability	The product is stable.
Incompatibility with Various Substances	None known.
Hazardous Decomposition Products	Will not occur.

Section 11. Toxicolog	ical Information
Routes of Entry	Skin contact. Ingestion. INHALATION
Toxicity to Animals	Acute oral toxicity (LD50): 3030 mg/kg [Rat]. (Tetrasodium EDTA).
Acute Effects on Humans	
Eyes	Eye irritant. Liquid and mist may damage the eyes causing corneal injury.
Skin	Skin irritant. Prolonged or repeated contact may cause dermatitis.
Inhalation	N/A
Ingestion	May be irritating to the mouth, throat, and gastrointestinal system. Burning pain, vomiting, and diarrhea expected with large doses.
Chronic Effects on Humans	Prolonged exposure may result in skin burns and ulcerations.
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	Any method in accordance with applicable laws.	
Waste Stream	Not available.	

Section 14. Transport Information

DOT (U.S.A) (Pictograms)



TDG Classification Class 8: Corrosive material



PIN UN, Proper Shipping Name, PG

Maritime Transportation

Not applicable.

Not available.

Special Provisions for

Transport

Not applicable.

Section 15. Other Regulatory Information and Pictograms					
WHMIS (Classification)	WHMIS CLASS D-2: Material causing other toxic effects. Controlled under the Pest Control Products Act (PCP)		(
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: Corrosive liquid. California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Ethylene Oxide < 1 ppm 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: Ethylene Oxide < 1 ppm Massachusetts RTK: Ethylene Oxide SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Nonionic Surfactant: immediate health hazard			
	USA Regulatory Lists				
	DSD (EEC)	This product is not classified according to the EU regulations.			
	International Regulations Lists	No products were found.			
		National Fire Protection Association (U.S.A.) ovide only a quick reference for hazard information. T ds, First Aid measures, and PPE associated with this			

Section 16. Other Information					
Validated by CRushton on 3/22/2004.		Verified by CRushton.			
		Printed 3/27/2004.			
Information Contact	Betco Corporation				
	Toledo, Ohio 43607				
Notice to Reader					
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. Althoug			

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