

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

WHMIS (Pictograms)

Not controlled under WHMIS (Canada).

HCS Class: Irritating substance.

WHMIS (Classification)

HCS

Section 1. Chemical Product and Company Identification				
Product Name/ Trade name	Betco Lemon	Code		313
Synonym	Neutral pH Disinfectant/Deodorant/Detergent	Version Nu	mber	
Chemical Family	Not available.	Validation	Date	8/5/2010
Chemical Formula	Not applicable.	Print Date		8/5/2010
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (419) 241-2156	In Case of Emergency	Che	mtrec (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		Prot	tective Clothing

Section 2. Composition and Information on Ingredients				
Name	CAS#	% by Weight	Exposure Limits	$\mathrm{LC}_{50}/\mathrm{LD}_{50}$
Quaternary Ammonium Chloride Isopropyl Alcohol	68424-85-1 67-63-0	2 1-5	Not available. TWA: 400 (ppm) TWA: 400 (ppm) from OSHA (PEL) [United States] STEL: 500 (ppm)	Not available. ORAL (LD50): Acute: 16971 mg/kg [Rat].
Nonionic Surfactant	9016-45-9	1-5	Not available.	Not available.

Section 3. Hazards Identification		
Potential Acute Health Effects	No specific information is available in our database regarding the acute toxic effects of this material for humans. Irritating to mouth, throat and stomach. This product is a severe eye irritant. This product may irritate eyes and skin upon contact.	
Potential Chronic Health Effects	Over-exposure by inhalation may cause respiratory irritation. Repeated skin exposure can produce local skin destruction, or dermatitis.	
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.	

Section 4. Fir	rst 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 or 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 further 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 Fig	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	Absorb with an inert material and place in an appropriate waste disposal container.	
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	After handling, always wash hands thoroughly with soap and water.
Incompatibility	None known.
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	Safety glasses.	
Body	No special recommendations.	
Respiratory	Not applicable.	
Hands	Gloves.	
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. Physica	al and Chemical Properties		
Physical State and Appearance	Liquid.	Odor	Lemon like.
Molecular Weight	Not applicable.	Taste	Not available.
pН	6.5 to 8.5	Color	Yellow. (Light.)
Boiling/Condensation Point	212°F initial		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	1 (Water = 1)		
Vapor Pressure	20mm Hg @ 68°F		
Vapor Density	>1 (Air = 1)		
Volatility	90		
VOC	Not available.		
Evaporation Rate	<1		
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 in presence of various materials.	database	regarding the flammability of this product
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 Will not occur. Products	

Section 11. Toxicological Information		
Routes of Entry	Not available.	
Toxicity to Animals	Acute oral toxicity (LD50): 4610 mg/kg [Rat]. (Nonionic Surfactant).	
Acute Effects on Humans		
Eyes	Corrosive to eyes.	
Skin	Corrosive to the skin.	
Inhalation	Slightly irritating to the respiratory system.	
Ingestion	May be irritating to the gastrointestinal system. Vomiting and diarrhea expected with large doses.	
Chronic Effects on Humans	Over-exposure by inhalation may cause respiratory irritation. Repeated skin exposure can produce local skin destruction, or dermatitis.	
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	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

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PIN UN, Proper Shipping 1760 Corrosive liquid n.o.s. PG:III Name, PG

Maritime Transportation Not available.

Special Provisions for Transport

Not applicable.

Not controlled under WHMIS (Canada).			
No products were found.			
Not available. or of its ingredients			
HCS (U.S.A.)	HCS Class: Irritating substance.		
USA Regulatory Lists			
	SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Isopropyl Alcohol: fire		
DSD (EEC)	This product is not classified according to the EU regulations.		
International Regulations Lists	No products were found.		
Health	3 National Fire	O Flammability	
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Validated by CRushton on 8/5/2010.	
valuated by Civisiton on 6/5/2010.	Verified by CRushton.
	Printed 8/5/2010.
Information Contact Betco Corporation	
1001 Brown Avenue	
Toledo, Ohio 43607	

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caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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