



# Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

	WHMIS Class D-2B: Material causing other toxic effects (TOXIC).	Class: Irritating substance.
WHMIS (Pictograms)	WHMIS (Classification)	HCS

## Section 1. Chemical Product and Company Identification

Product Name/ Trade name	<b>Glybet, Citrus Bouquet</b>	Code	086
Synonym	Hospital Disinfectant/Deodorant	CAS #	Not applicable.
Chemical Family	Not available.	Validation Date	3/2/2007
Chemical Formula	Not applicable.	Print Date	3/23/2007
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Oh 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		
		<b>Protective Clothing</b> 	

## Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
Isopropyl Alcohol	67-63-0	50 - 60	TWA: 400 ppm <b>OSHA (United States).</b>	ORAL (LD50): Acute: 16971 mg/kg [Rat].
Liquified Petroleum Gas	68476-85-7	25 - 30	TWA: 400 ppm STEL: 500 ppm TWA: 1000 ppm <b>OSHA (United States).</b>	Not available.
Sodium Nitrite	7632-00-0	<1	TWA: 1000 ppm	Not available.
Quaternary Ammonium Chloride	68391-01-5	0.2	Not available.	Not available.

## Section 3. Hazards Identification

<b>Potential Acute Health Effects</b>	Corrosive to eyes and skin. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Inflammation of the eye is characterized by redness, watering, and itching. Irritating to mouth, throat and stomach. Harmful if swallowed.
<b>Potential Chronic Health Effects</b>	Over-exposure by inhalation may cause respiratory irritation. Prolonged exposure may result in skin burns and ulcerations.
<b>Carcinogenic Effects</b>	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

## Section 4. First Aid Measures


<b>Eye Contact</b>	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.
<b>Skin Contact</b>	Rinse skin with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for further treatment advice.

<b>Inhalation</b>	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.
<b>Ingestion</b>	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

<b>Section 5. Fire Fighting Measures</b>	
<b>Products of Combustion</b>	Not available.
<b>Fire Fighting Media and Instructions</b>	Water fog, dry chemical, CO2, foam.
<b>Special Remarks on Fire Hazards</b>	N/A
<b>Special Remarks on Explosion Hazards</b>	Heated cans may burst.

<b>Section 6. Accidental Release Measures</b>	
<b>Small Spill and Leak</b>	Absorb with an inert material.
<b>Large Spill and Leak</b>	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
<b>Personal Protection in Case of a Large Spill</b>	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

<b>Section 7. Handling and Storage</b>	
<b>Precautions</b>	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 breathe gas, fumes, vapor or spray.
<b>Incompatibility</b>	Strong oxidizers.
<b>Storage</b>	Keep out of the reach of children. Not for use or storage in or around the home.

<b>Section 8. Exposure Controls/Personal Protection</b>	
<b>Engineering Controls</b>	Good general ventilation should be sufficient to control airborne levels.
<b>Personal Protection</b>	
<i>Eyes</i>	Safety glasses.
<i>Body</i>	Lab coat.
<i>Respiratory</i>	Not applicable.
<i>Hands</i>	Gloves.
<b>Protective Clothing (Pictograms)</b>	

<b>Exposure Limits</b>	<p><b>Isopropyl Alcohol</b>  TWA: 400 (ppm)  TWA: 400 (ppm) from OSHA (PEL)  STEL: 500 (ppm)</p> <p><b>Liquified Petroleum Gas</b>  TWA: 1000 (ppm)  TWA: 1000 (ppm) from OSHA (PEL)</p> <p><b>Monoethanolamine</b>  TWA: 3 (ppm)  TWA: 6 (ppm) from OSHA (PEL)</p>
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STEL: 6 (ppm)

Consult local authorities for acceptable exposure limits.

### Section 9. Physical and Chemical Properties

<b>Physical State and Appearance</b>	Liquid.	<b>Odor</b>	Citrus (Strong.)
<b>Molecular Weight</b>	Not applicable.	<b>Taste</b>	Not available.
<b>pH</b>	Not available.	<b>Color</b>	Clear
<b>Boiling/Condensation Point</b>	N/A		
<b>Melting/Freezing Point</b>	Not available.		
<b>Critical Temperature</b>	Not available.		
<b>Instability Temperature</b>	Not available.		
<b>Specific Gravity</b>	Not available.		
<b>Vapor Pressure</b>	35 psig @ 68°F		
<b>Vapor Density</b>	>1 (Air = 1)		
<b>Volatility</b>	90		
<b>VOC</b>	Not available.		
<b>Evaporation Rate</b>	(Water=1):>1		
<b>Dispersion Properties</b>	Not available.		
<b>Solubility</b>	Not available.		
<b>The Product is:</b>	May be combustible at high temperature.		
<b>Auto-ignition Temperature</b>	Not available.		
<b>Flash Points</b>	Flame Extension 18 Inches, no flash back.		
<b>Flammable Limits</b>	LOWER: 1.9% UPPER: 8.5%		
<b>Fire Hazards in Presence of Various Substances</b>	No specific information is available in our database regarding the flammability of this product in presence of various materials.		
<b>Explosion Hazards in Presence of Various Substances</b>	Containers may explode when heated.		

### Section 10. Stability and Reactivity Data

<b>Stability</b>	The product is stable.
<b>Incompatibility with Various Substances</b>	Strong oxidizers.
<b>Hazardous Decomposition Products</b>	Will not occur.

### Section 11. Toxicological Information

<b>Routes of Entry</b>	Absorbed through skin. Eye contact. Inhalation. Ingestion.
<b>Toxicity to Animals</b>	LD50: Not available. LC50: Not available.
<b>Acute Effects on Humans</b>	<p><i>Eyes</i> Irritant. Inflammation of the eye is characterized by redness, watering, and itching. Eye contact can result in corneal damage or blindness.</p> <p><i>Skin</i> Irritant. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.</p> <p><i>Inhalation</i> Slightly irritating to the respiratory system.</p> <p><i>Ingestion</i> Irritating to mouth, throat and stomach. May cause gastrointestinal discomfort. May cause headache, dizziness, nausea, vomiting and diarrhea.</p>
<b>Chronic Effects on Humans</b>	Over-exposure by inhalation may cause respiratory irritation. Prolonged exposure may result in skin burns and ulcerations.
<b>Special Remarks on Toxicity to Animals</b>	Not available.
<b>Special Remarks on Chronic Effects on Humans</b>	Not available.

### Section 12. Ecological Information

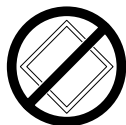
<b>Ecotoxicity</b>	Not available.
<b>BOD5 and COD</b>	Not available.
<b>Products of Biodegradation</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
<b>Toxicity of the Products of Biodegradation</b>	Not available.
<b>Special Remarks on the Products of Biodegradation</b>	Not available.

### Section 13. Disposal Considerations

<b>Waste Information</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
<b>Waste Stream</b>	Not available.

### Section 14. Transport Information

**DOT (U.S.A)  
(Pictograms)**



**TDG Classification** Not controlled under TDG (Canada).



**PIN UN, Proper Shipping Name, PG** Not applicable.

Maritime Transportation Not available.

Special Provisions for Transport Not applicable.

### Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification) WHMIS Class D-2B: Material causing other toxic effects (TOXIC).



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.) Class: Irritating substance.

#### USA Regulatory Lists

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium Nitrite  
SARA 313 toxic chemical notification and release reporting: Sodium Nitrite

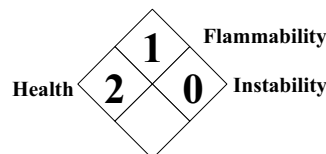
DSD (EEC) This product is not classified according to the EU regulations.

International Regulations Lists No products were found.

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

Health	2
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.

### Section 16. Other Information

Validated by CRushton on 3/2/2007.

Verified by CRushton.

Printed 3/23/2007.

Information Contact Betco Corporation  
1001 Brown Avenue  
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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