



Material Safety Data Sheet

WHMIS (Pictograms)

WHMIS (Classification)

HCS

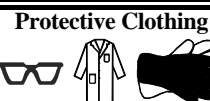


WHMIS Class D-2B: Material causing other toxic effects (TOXIC).

Class: Irritating substance.

Section 1. Chemical Product and Company Identification

Product Name/ Trade name	Glybet, Citrus Bouquet	Code	086
Synonym	Hospital Disinfectant/Deodorant	CAS #	Not applicable.
Chemical Family	Not available.	Validation Date	1/25/2001
Chemical Formula	Not applicable.	Print Date	2/12/2001
Manufacturer	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	DSL : All components listed unless noted elsewhere on this MSDS		



Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
1) Isopropyl Alcohol	67-63-0	>45	TWA: 400 (ppm) TWA: 400 (ppm) from OSHA (PEL) [United States] STEL: 500 (ppm)	Not available.
2) Water	7732-18-5	<14	Not available.	Not available.
3) Liquefied Petroleum Gas	68476-85-7	<30	TWA: 1000 (ppm) TWA: 1000 (ppm) from OSHA (PEL) [United States]	Not available.
4) Triethylene Glycol	112-27-6	<8	Not available.	Not available.
5) Sodium Nitrite	7632-00-0	<1	Not available.	Not available.
6) Perfume Oil	N/A	<0.8	Not available.	Not available.
7) Monoethanolamine	141-43-5	<1	TWA: 3 (ppm) TWA: 6 (ppm) from OSHA (PEL) [United States] STEL: 6 (ppm)	Not available.
8) Quaternary Ammonium Chloride	68391-01-5	0.2	Not available.	Not available.

Section 3. Hazards Identification

Potential Acute Health Effects	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.
Potential Chronic Health Effects	Over-exposure by inhalation may cause respiratory irritation. 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	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.
Skin Contact	After contact with skin, wash immediately with plenty of water.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do not induce vomiting. Have conscious person drink several glasses of water or milk. Seek immediate medical attention.

Section 5. Fire Fighting Measures

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

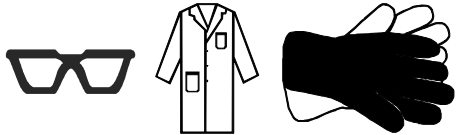
Section 6. Accidental Release Measures

Small Spill and Leak	Absorb with an inert material.
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	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.
Incompatibility	Strong oxidizers.
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	
<i>Eyes</i>	Safety glasses.
<i>Body</i>	Lab coat.
<i>Respiratory</i>	Not applicable.
<i>Hands</i>	Gloves.
Protective Clothing (Pictograms)	

Exposure Limits**Isopropyl Alcohol**

TWA: 400 (ppm)
 TWA: 400 (ppm) from OSHA (PEL)
 STEL: 500 (ppm)

Liquified Petroleum Gas

TWA: 1000 (ppm)
 TWA: 1000 (ppm) from OSHA (PEL)

Monoethanolamine

TWA: 3 (ppm)
 TWA: 6 (ppm) from OSHA (PEL)
 STEL: 6 (ppm)

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Citrus (Strong.)
Molecular Weight	Not applicable.	Taste	Not available.
pH	Not available.	Color	Clear
Boiling/Condensation Point	N/A		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	Not available.		
Vapor Pressure	35 psig @ 68°F		
Vapor Density	>1 (Air = 1)		
Volatility	90		
VOC	Not available.		
Evaporation Rate	(Water=1):>1		
Odor Threshold	Not available.		
LogK_{ow}	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	Not available.		
Solubility	Not available.		
The Product is:	May be combustible at high temperature.		
Auto-ignition Temperature	Not available.		
Flash Points	Not available.		
Flammable Limits	LOWER: 1.9% UPPER: 8.5%		
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 LD50: Not available.
LC50: Not available.

Acute Effects on Humans

Eyes Irritant. Inflammation of the eye is characterized by redness, watering, and itching. Eye contact can result in corneal damage or blindness.

Skin Irritant. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Inhalation Slightly irritating to the respiratory system.

Ingestion Irritating to mouth, throat and stomach. May cause gastrointestinal discomfort. May cause headache, dizziness, nausea, vomiting and diarrhea.

Chronic Effects on Humans Over-exposure by inhalation may cause respiratory irritation. Prolonged exposure may result in skin burns and ulcerations.

Special Remarks on Toxicity to Animals Not available.

Special Remarks on Chronic Effects on Humans Not available.

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 Not available.

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	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).	
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Regulatory Lists	No products were found.
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Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
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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	National Fire Protection Association (U.S.A.)		Flammability	
	Flammability	3				
	Reactivity	0				Reactivity
	Personal Protection	A				Specific Hazard

Section 16. Other Information

Validated by CRushton on 1/25/2001. Verified by CRushton.
Printed 2/12/2001.

Information Contact **Betco Corporation**
1001 Brown Avenue
Toledo, Ohio 43607

Notice to Reader

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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