Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

WHMIS (Pictograms)	WHMIS CLASS B-5: Flammable aerosol. WHMIS CLASS D-2B: Material causing other toxic effects (TOXIC). WHMIS (Classification)	HCS CLASS: Flammable aerosol. HCS

Section 1. Chemical Product and Company Identification

Product Name/ Trade name	**Glybet, Fresh and Clean**
Synonym	Hospital Disinfectant/Deodorant
Chemical Family	N/A
Chemical Formula	Not applicable.
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (419) 241-2156
TSCA	**TSCA Inventory: All components listed or are exempt from listing.**
DSL/ NDSL	**All components listed unless noted elsewhere on this MSDS**

Code	085
CAS #	Mixture.
Validation Date	**3/2/2007**
Print Date	3/23/2007
In Case of Emergency	Chemtrec (800) 424-9300

Protective Clothing

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC_{50}/LD_{50}
Isopropyl Alcohol	67-63-0	50 - 60	TWA: 400 ppm **OSHA (United States).** TWA: 400 ppm STEL: 500 ppm	ORAL (LD50): Acute: 16971 mg/kg [Rat].
Liquified Petroleum Gas	68476-85-7	20 - 30	TWA: 1000 ppm **OSHA (United States).** TWA: 1000 ppm	Not available.
Triethylene Glycol	112-27-6	5 - 10	Not available.	Not available.
Perfume Oil	N/A	0 - 5	Not available.	Not available.
Monoethanolamine	141-43-5	0 - 5	TWA: 3 ppm **OSHA (United States).** TWA: 6 ppm STEL: 6 ppm	Not available.
Sodium Nitrite	7632-00-0	<1	Not available.	Not available.
Quaternary Ammonium Chloride	68391-01-5	0.2	Not available.	Not available.

Section 3. Hazards Identification

Potential Acute Health Effects	May cause corneal opacity. Irritating to the mucous membranes of the nose, throat and lungs. Vomiting, Diarrhea, Dizziness, Drowsiness, Thirst, Faintness, weakness.
Potential Chronic Health Effects	Repeated skin exposure can produce local skin destruction, or dermatitis. Severe over-exposure can result in death.
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. 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.
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 Fighting Measures

Products of Combustion	carbon oxides (CO, CO2)
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	Safety glasses recommended. Try to stop the gaseous leak by taping the container with an appropriate material (tape, stretched plastic).
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	Be sure to use a MSHA/NIOSH approved respirator or equivalent. Gloves (impervious). Safety glasses.

Section 7. Handling and Storage

Precautions	Avoid contact with skin and eyes. After handling, always wash hands thoroughly with soap and water. DO NOT ingest.
Incompatibility	oxidizing agents
Storage	Flammable materials should be stored in a separate safety storage cabinet or room. 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	Safety glasses.
Body	No special protective clothing is required.
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) **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	Gas. (Compressed gas.)
Molecular Weight	Not applicable.
pH	N/A
Boiling/Condensation Point	N/A
Melting/Freezing Point	Not available.
Critical Temperature	Not available.
Instability Temperature	Not available.
Specific Gravity	0.85 (Water = 1)
Vapor Pressure	35 psig @ 68°F
Vapor Density	>1 (Air = 1)
Volatility	90
VOC	53.3%
Evaporation Rate	>1
Dispersion Properties	
Solubility	Soluble
The Product is:	Flammable.
Auto-ignition Temperature	N/A
Flash Points	OPEN CUP: 11.667°C (53°F).
Flammable Limits	LOWER: 1.9% UPPER: 8.5%
Fire Hazards in Presence of Various Substances	Flammable.
Explosion Hazards in Presence of Various Substances	Heated Cans May burst

Odor	Pleasant.
Taste	Not available.
Color	Colorless.

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Incompatibility with Various Substances	oxidizing agents
Hazardous Decomposition Products	Carbon Dioxide

Section 11. Toxicological Information

Routes of Entry	Eye Contact Ingestion. INHALATION Skin contact.
Toxicity to Animals	LD50: Not available. LC50: Not available.
Acute Effects on Humans	
Eyes	Irritant. 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 diarhea.
Chronic Effects on Humans	Repeated skin exposure can produce local skin destruction, or dermatitis. Severe over-exposure can result in death.
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 Applicable
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 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 B-5: Flammable aerosol. WHMIS CLASS D-2B: Material causing other toxic effects (TOXIC).

Regulatory Lists No products were found.

Other Regulations Not available. or of its ingredients

Other Classifications

HCS (U.S.A.) HCS CLASS: Flammable aerosol.

USA Regulatory Lists

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

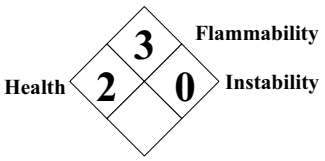
DSD (EEC)

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 Reade

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.

Continued on Next Page