




Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

 WHMIS (Pictograms)	Class A: Compressed gas. Class B-1: Flammable gas. Class D-2B: Material causing other toxic effects (TOXIC). WHMIS (Classification)	HCS Class: Flammable aerosol. HCS Class: Irritating substance. HCS
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Section 1. Chemical Product and Company Identification

Product Name/ Trade name	Glybet Surface and Air	Code	089
Synonym	Not available.	CAS #	Mixture.
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, Ohio 43607 (800) 333-2156	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		

Protective Clothing



Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Isopropyl Alcohol	67-63-0	53	OSHA (United States). TWA: 400 ppm	ORAL (LD50): Acute: 16971 mg/kg [Rat].
Isobutane	75-28-5	25 - 35	TWA: 800 ppm OSHA (United States). TWA: 800 ppm	Not available.
Triethylene Glycol	112-27-6	6	Not available.	Not available.
Perfume Oil	8007-02-1	<1	Not available.	Not available.
Ammonium Hydroxide	1336-21-6	0.5 - 1	Not available.	Not available.
Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chlorides	85409-23-0	0.1	Not available.	Not available.
Alkyl Dimethyl Ammonium Chloride	68391-01-5	0.1	Not available.	Not available.

Section 3. Hazards Identification

Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant).
Potential Chronic Health Effects	May aggravate existing respiratory conditions. May aggravate existing skin conditions.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4. First Aid Measures

Eye Contact	In case of contact, immediately rinse slowly with plenty of water for at least 15-20 minutes. Check for and remove any contact lenses, if present after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.
Skin Contact	Remove contaminated clothing and shoes. In case of contact, immediately flush skin with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
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 unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Section 5. Fire Fighting Measures

Products of Combustion	Not available.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards	FLAMMABLE.
Special Remarks on Explosion Hazards	Heated Containers may burst.

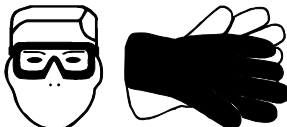
Section 6. Accidental Release Measures

Small Spill and Leak	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary:
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.

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 ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as reducing agents, combustible materials.
Incompatibility	Reactive with reducing agents, combustible materials.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 48.889°C (120°F).

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>	No special protective clothing is required.
<i>Respiratory</i>	A respirator is not needed under normal and intended conditions of product use.
<i>Hands</i>	Gloves.
Protective Clothing (Pictograms)	
Exposure Limits	See Section 2 For Applicable Exposure Limits

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Lemon like.
Molecular Weight	Not applicable.	Taste	Not available.
pH	11.7 [Basic.]	Color	Clear.
Boiling/Condensation Point	The lowest known value is 100°C (212°F) (Water).		
Melting/Freezing Point	May start to solidify at 0°C (32°F) based on data for: Water.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	0.84398 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	Not available.		
Volatility	Not available.		
VOC	>53% By Weight		
Evaporation Rate	<1		
Dispersion Properties	See solubility in water, methanol, acetone.		
Solubility	Easily soluble in cold water, hot water, methanol, acetone.		
The Product is:	FLAMMABLE.		
Auto-ignition Temperature	Not available.		
Flash Points	Not available.		
Flammable Limits	Not available.		
Fire Hazards in Presence of Various Substances	Highly flammable in presence of open flames, sparks and static discharge, of heat.		
Explosion Hazards in Presence of Various Substances	Not available.		

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Incompatibility with Various Substances	Reactive with reducing agents, combustible materials.
Hazardous Decomposition Products	Not available.

Section 11. Toxicological Information

Routes of Entry	Dermal contact. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 16971 mg/kg [Rat]. (Isopropyl Alcohol).
Acute Effects on Humans	<p><i>Eyes</i> Hazardous in case of eye contact (irritant).</p> <p><i>Skin</i> Sensitization of the product: Not available. Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.</p> <p><i>Inhalation</i> May cause, headache, dizziness, and nausea</p> <p><i>Ingestion</i> Harmful if swallowed.</p>
Chronic Effects on Humans	May aggravate existing respiratory conditions. May aggravate existing skin conditions.
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	Not available.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on the Products of Biodegradation	Not available.

Section 13. Disposal Considerations

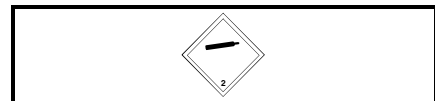
Waste Information	Type: Hazardous chemical waste. Location: not available Classification: not available Disposal.: Waste must be disposed of in accordance with federal, state and local environmental control regulations. Storage: not available Recycling: not available
Waste Stream	Not available.

Section 14. Transport Information

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



TDG Classification 2.2



PIN UN, Proper Shipping Name, PG Classified ORM-D When Shipped By Ground
This product is a Flammable Aerosol when Shipped By Air.

Maritime Transportation Not available.

Special Provisions for Transport Not available.

Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification) Class A: Compressed gas.
Class B-1: Flammable gas.
Class D-2B: Material causing other toxic effects (TOXIC).



Regulatory Lists No products were found.

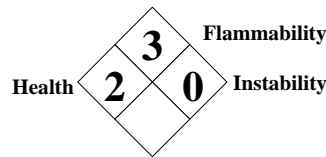
Other Regulations Not available. or of its ingredients

Other Classifications	HCS (U.S.A.)	HCS Class: Flammable aerosol. HCS Class: Irritating substance.
	USA Regulatory Lists	SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Isopropyl Alcohol: Fire hazard
	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. **Specific Hazard**

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 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.

Validated on 3/2/2007.

Glybet Surface and Air

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