




Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

 WHMIS (Pictograms)	CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). WHMIS (Classification)	Class: Flammable liquid having a flash point lower than 37.8°C (100°F). HCS
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Section 1. Chemical Product and Company Identification

Product Name/ Trade name Winning Hands Alcohol Foaming	Code 755
Synonym Alcohol Based Foaming Hand Sanitizer	CAS # Mixture.
Chemical Family Drug.	Validation Date 1/18/2006
Chemical Formula N/A	Print Date 1/18/2006
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.	Protective Clothing
DSL/ NDSL 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
Ethanol	64-17-5	62	ACGIH (United States). TWA: 1000 ppm TWA: 1880 mg/m ³ OSHA (United States). TWA: 1000 mg/m ³ TWA: 1900 mg/m ³	Not available.

Section 3. Hazards Identification

Potential Acute Health Effects	This product is an eye irritant. Harmful if swallowed.
Potential Chronic Health Effects	Over-exposure by inhalation may cause respiratory irritation. If skin redness or irritation develops, discontinue use.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4. First Aid Measures

Eye Contact	In case of contact with eyes, rinse immediately with plenty of water.
Skin Contact	Discontinue use if redness or irritation develops
Inhalation	Remove to fresh air.
Ingestion	Call a poison control center immediately for treatment advice. NEVER give an unconscious person anything to ingest.

Section 5. Fire Fighting Measures

Products of Combustion	Not available.
Fire Fighting Media and Instructions	Foam, CO2, water fog.
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 DRY earth, sand or other non-combustible material. Prevent entry into sewers, basements or confined areas.
Personal Protection in Case of a Large Spill	Splash goggles. Gloves.

Section 7. Handling and Storage

Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe gas/fumes/ vapor/spray.
Incompatibility	acids, oxidizing materials
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	
<i>Eyes</i>	Avoid Contact with eyes.
<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>	Not applicable.
Protective Clothing (Pictograms)	
Exposure Limits	Ethanol TWA: 1000 (ppm) from ACGIH (TLV) TWA: 1880 (mg/m ³) from ACGIH (TLV) TWA: 1000 (ppm) from OSHA (PEL) TWA: 1900 (mg/m ³) from OSHA (PEL) Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Pleasant.
Molecular Weight	Not applicable.	Taste	Not available.
pH	7 [Neutral.]	Color	Blue. (Light.)
Boiling/Condensation Point	77.778°C (172°F)		
Melting/Freezing Point	Not available.		

Critical Temperature	Not available.
Instability Temperature	Not available.
Specific Gravity	0.884 (Water = 1)
Vapor Pressure	Not available.
Vapor Density	>1 (Air = 1)
Volatility	>90% (w/w).
VOC	61 (%)
Evaporation Rate	>1 compared to Water
Dispersion Properties	Not available.
Solubility	
The Product is:	Flammable.
Auto-ignition Temperature	Not available.
Flash Points	Closed cup: 13.889°C (57°F).
Flammable Limits	Not Determined
Fire Hazards in Presence of Various Substances	Not available.
Explosion Hazards in Presence of Various Substances	Drums Heated By Fire Can explode

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Incompatibility with Various Substances	acids, oxidizing materials
Hazardous Decomposition Products	Not available.

Section 11. Toxicological Information

Routes of Entry	Not available.
Toxicity to Animals	LD50: Not available. LC50: Not available.
Acute Effects on Humans	<p><i>Eyes</i> Irritant. Inflammation of the eye is characterized by redness, watering, and itching.</p> <p><i>Skin</i> Non-irritating .</p> <p><i>Inhalation</i> According to our data base, the product will not easily enter the human body.</p> <p><i>Ingestion</i> May cause nausea, vomiting and diarrhea. Harmful if swallowed.</p>
Chronic Effects on Humans	Over-exposure by inhalation may cause respiratory irritation. If skin redness or irritation develops, discontinue use.
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 TDG Class 3: Flammable liquid.



PIN UN, Proper Shipping Name, PG Shipping name: FLAMMABLE LIQUIDS, N.O.S. (Contains Ethanol) UNNA: 1993 PG: II

Maritime Transportation Not available.

Special Provisions for Transport Not available.

Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification) CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).



Regulatory Lists CEPA DSL: 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: Flammable liquid having a flash point lower than 37.8°C (100°F).

USA Regulatory Lists No products were found.

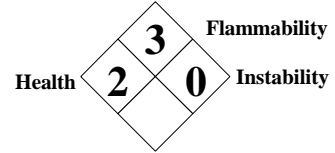
DSD (EEC) R11- Highly flammable.

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 1/18/2006.

Verified by CRushton.
Printed 1/18/2006.

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 1/18/2006.

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