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

Section 1. Chemical Product and Company Identification

Product Name/ Trade name	**Clario Foaming Alcohol Instant Hand Sanitizer**
Synonym	Alcohol Based Foaming Hand Sanitizer
Chemical Family	Drug.
Chemical Formula	N/A
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Oh 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	774
CAS #	Mixture.
Validation Date	**8/30/2007**
Print Date	8/30/2007
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}
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	
Eyes	Avoid Contact with eyes.
Body	No special protective clothing is required.
Respiratory	A respirator is not needed under normal and intended conditions of product use.
Hands	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.
Molecular Weight	Not applicable.
pH	7 [Neutral.]
Boiling/Condensation Point	77.778°C (172°F)
Melting/Freezing Point	Not available.
Critical Temperature	Not available.
Instability Temperature	Not available.

Odor	Pleasant.
Taste	Not available.
Color	Blue. (Light.)

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	
Eyes	Irritant. Inflammation of the eye is characterized by redness, watering, and itching.
Skin	Non-irritating .
Inhalation	According to our data base, the product will not easily enter the human body.
Ingestion	May cause nausea, vomiting and diarhea. Harmful if swallowed.
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).

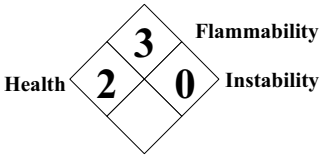
Other Classifications

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.

Section 16. Other Information

Validated by CRushton on 8/30/2007.

Verified by CRushton.

Printed 8/30/2007.

Information Contact **Betco Corporation**
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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.

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