

Material Safety Data Sheet This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200



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

Class: Flammable liquid having a flash point lower than 37.8°C (100°F).

WHMIS (Pictograms)

WHMIS (Classification)

HCS

Section 1. Chemical Product and Company Identification			
Product Name/ Trade name	Clario Foaming Alcohol Instant Hand Sanitizer	Code	774
Synonym	Alcohol Based Foaming Hand Sanitizer	CAS#	Mixture.
Chemical Family	Drug.	Validation Da	te 8/30/2007
Chemical Formula	N/A	Print Date	8/30/2007
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.		
DSL/ NDSL	All components listed unless noted elsewhere on this MSDS	P	rotective 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/m³ OSHA (United States). TWA: 1000 mg/m³ TWA: 1900 mg/m³	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 A	id 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. Exposu	re 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.	Odor	Pleasant.
Molecular Weight	Not applicable.	Taste	Not available.
рН	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

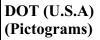
Section 10. Stability and Reactivity Data	
Stability The product is stable.	
Incompatibility with Various Substances	acids, oxidizing materials
Hazardous Decomposition Not available. Products	

Section 11. Toxicological Information			
Routes of Entry	Not available.		
Toxicity to Animals	LD50: Not available. LC50: Not available.		
Acute Effects on Human	S		
Eye	es Irritant. Inflammation of the eye is characterized by redness, watering, and itching.		
Ski	in Non-irritating.		
Inhalatio	Inhalation According to our data base, the product will not easily enter the human body.		
Ingestio	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 Not available. Biodegradation				
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





TDG Classification TDG Class 3: Flammable liquid.



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

Maritime Transportation Not available.

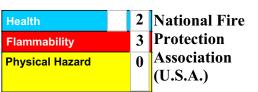
Special Provisions for

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.)





The Hazard Ranking systems presented on this MSDS provide only a quick reference for hazard information. The ENTIRE Specific Hazard 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 1001 Brown Avenue

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 8/30/2007.

Clario Foaming Alcohol Instant Hand Sanitizer

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