



Material Safety Data Sheet


WHMIS (Pictograms)

WHMIS (Classification)

HCS

	E	Class: Corrosive material
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Section 1. Chemical Product and Company Identification

Product Name/ Trade name	CitruSpray	Code	137
Synonym	Ready-To-Use Foaming Degreaser	CAS #	Mixture.
Chemical Family	N/A	Validation Date	1/21/2003
Chemical Formula	N/A	Print Date	1/21/2003
Manufacturer	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	DSL : 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
1) Water	7732-18-5	90-95	Not available.	Not available.
2) Glycol Ether	112-34-5	0-5	Not available.	Not available.
3) Amphoteric Surfactant	68298-20-4	0-5	Not available.	Not available.
4) Nonionic Surfactant	9016-45-9	0-5	Not available.	Not available.
5) Sodium Metasilicate	6834-92-0	0-5	Not available.	Not available.
6) Xanthan Gum	11138-66-2	0-5	Not available.	ORAL (LD50): Acute: 5000 mg/kg [Rat].
7) Tetrasodium salt of ethylenediaminetetraacetic acid	64-02-8	0-5	Not available.	ORAL (LD50): Acute: 3030 mg/kg [Rat].
8) Citrus Terpenes	5989-27-5	0-5	Not available.	Not available.
9) Dye	N/A	<1	Not available.	Not available.

Section 3. Hazards Identification

Potential Acute Health Effects	Corrosive to eyes and skin. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Harmful if swallowed.
Potential Chronic Health Effects	Repeated skin exposure can produce local skin destruction, or dermatitis.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4. First Aid Measures

Eye Contact	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Skin Contact	Remove contaminated clothing. Prolonged exposure may result in skin burns and ulcerations. Seek medical attention. Wash gently and thoroughly the contaminated skin with running water and non abrasive soap.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire Fighting Measures

Products of Combustion	Not available.
Fire Fighting Media and Instructions	Non-flammable substance.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.


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	Corrosive liquid. Avoid to runoff to sewers and waterways. Wear Protective Clothing. Absorb with inert Material. Contact you local Emergency planning commission for further instructions. Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Personal Protection in Case of a Large Spill	Gloves (impervious). Boots. Face shield.

Section 7. Handling and Storage

Precautions	Avoid contact with skin and eyes. DO NOT ingest.
Incompatibility	acids
Storage	Corrosive 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> Splash goggles.
	<i>Body</i> Long Pants and Long Sleeves to avoid skin contact.
	<i>Respiratory</i> Wear appropriate respirator when ventilation is inadequate.
	<i>Hands</i> Gloves (impervious).
Protective Clothing (Pictograms)	

Exposure Limits	Sodium Hydroxide TWA: 2 (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	12 to 13 [Basic.]	Color	Yellow to red.
Boiling/Condensation Point	100°C (212°F)		
Melting/Freezing Point			
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	1 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	>1 (Air = 1)		
Volatility	>85% (w/w).		
VOC	-6 (%)		
Evaporation Rate	<1		
Odor Threshold	Not available.		
LogK_{ow}	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water.		
Solubility	Soluble		
The Product is:	Non-flammable.		
Auto-ignition Temperature	Not available.		
Flash Points	CLOSED CUP: >98.889°C (210°F).		
Flammable Limits	Not available.		
Fire Hazards in Presence of Various Substances	Non-flammable.		
Explosion Hazards in Presence of Various Substances	Not applicable		

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Incompatibility with Various Substances	acids
Hazardous Decomposition Products	not available

Section 11. Toxicological Information

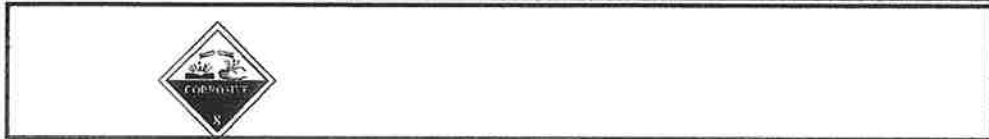
Routes of Entry	Skin contact. Eye Contact Ingestion. INHALATION
Toxicity to Animals	not available
Acute Effects on Humans	<p><i>Eyes</i> Corrosive to eyes.</p> <p><i>Skin</i> Corrosive to skin on contact. Skin contact may produce burns.</p> <p><i>Inhalation</i> Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Over-exposure by inhalation may cause respiratory irritation.</p> <p><i>Ingestion</i> May be fatal if swallowed. May cause burns to mouth, throat, and stomach.</p>
Chronic Effects on Humans	Repeated skin exposure can produce local skin destruction, or dermatitis.
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 available.
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 InformationDOT (U.S.A)
(Pictograms)

TDG Classification Class 8: Corrosive material

PIN UN, Proper Shipping Name, PG Shipping name: CORROSIVE LIQUIDS, N.O.S. UNNA: UN1760 PG: II
(Contains Caustic Soda)

The information indicated above is product specific.

Maritime Transportation Not available.

Special Provisions for Transport

Not available.

Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification)

E



Regulatory Lists

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: Corrosive material

USA Regulatory Lists

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Glycol Ether; Sodium Hydroxide: immediate health hazard
SARA 313 toxic chemical notification and release reporting: Glycol Ether

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.)

Flammability	2
Reactivity	0
Personal Protection	B

National Fire Protection Association (U.S.A.)



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Section 16. Other Information

Validated by CRushton on 1/21/2003.

Verified by CRushton.

Printed 1/21/2003.

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 1/21/2003.

CitruSpray

Page: 6/6

Continued on Next Page