

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



WHMIS CLASS B-5: Flammable aerosol. WHMIS CLASS D-2: Material causing other toxic effects.

HCS CLASS: Flammable aerosol. HCS CLASS: Irritating substance.

WHMIS (Pictograms)

WHMIS (Classification)

HCS

Section 1. Che	emical Product and Company Identification		
Product Name/ Trade name	CitruSolv Spray	Code	021
Synonym	Organic Solvent Cleaner/Degreaser	CAS#	Mixture.
Chemical Family	N/A	Validation I	Date 2/10/2005
Chemical Formula	Not applicable.	Print Date	2/10/2005
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Ohio 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		Protective Clothing

Section 2. Composition and Information on Ingredients				
Name	CAS#	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Petroleum Distillate Petroleum Distillates	64742-89-8 64742-47-8	>1 >1	Not available. TWA: 100 ppm OSHA (United States). TWA: 300 ppm	Not available. Not available.
Citrus Terpenes	5989-27-5	>1	Not available.	ORAL (LD50): Acute: 5000 mg/kg [Rat]. DERMAL (LD50): Acute: 5000 mg/kg [Rabbit].
Propane	74-98-6	>1	OSHA (United States). TWA: 1000 ppm Simple asphyxiant.	Not available.
Isobutane	75-28-5	>1	TWA: 800 ppm OSHA (United States). TWA: 800 ppm	Not available.

Section 3. Hazards Identification		
Potential Acute Health Effects	Skin and eye irritant. Irritating to the mucous membranes of the nose, throat and lungs.	
Potential Chronic Health Effects	Repeated skin exposure can produce local skin destruction, or dermatitis. Harmful: danger of serious damage to health by prolonged exposure if swallowed.	
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. Seek medical attention.	
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.	
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
Ingestion	Since the product is a gas and that it is mostly probable that it will be inhaled more than ingested, please consider first to look at the preventive measures in case of inhalation.	

Section 5. Fire Fig	Section 5. Fire Fighting Measures	
Products of Combustion	Not available.	
Fire Fighting Media and Instructions	Use dry chemical or CO2.	
Special Remarks on Fire Hazards	N/A	
Special Remarks on Explosion Hazards	Not available.	

Section 6. Accidental Release Measures	
Small Spill and Leak	Try to stop the gaseous leak by taping the container with an appropriate material (tape, stretched plastic).
Large Spill and Leak	Aerosol that may flashback. Absorb with DRY earth, sand or other non-combustible material.
Personal Protection in Case of a Large Spill	Be sure to use a MSHA/NIOSH approved respirator or equivalent. Gloves (impervious). Splash goggles.

Section 7. Handling and Storage		
Precautions	Avoid breathing vapors or spray mists.	
Incompatibility	oxidizing agents	
Storage	Flammable materials should be stored in a separate safety storage cabinet or room. Keep out of reach of children. Not for use or storage in or around the home.	

Section 8. Exposul	re Controls/Personal Protection
Engineering Controls	Good general ventilation should be sufficient to control airborne levels.
Personal Protection Eyes	Safety glasses.
Body	No special protective clothing is required.
Respiratory	Wear appropriate respirator when ventilation is inadequate.
Hands	Gloves.
Protective Clothing (Pictograms)	
Exposure Limits	Not available.

Section 9. Physica	al and Chemical Properties		
Physical State and Appearance	Gas. (Compressed gas.)	Odor	Pleasant.
Molecular Weight	Not applicable.	Taste	Not available.
pН	Not Available	Color	Colorless.
Boiling/Condensation Point	N/A		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	Not available.		
Vapor Pressure	Not applicable.		
Vapor Density	>1 (Air = 1)		
Volatility	Not available.		
VOC	Not available.		
Evaporation Rate	>1		
Dispersion Properties	Disperses		
Solubility	Not available.		
The Product is:	FLAMMABLE.		
Auto-ignition Temperature	Not Available		
Flash Points	EXTREMELY FLAMMABLE PER CP	SC FLAME PRO	DJECTION TEST
Flammable Limits	Not available.		
Fire Hazards in Presence of Various Substances	Flammable.		
Explosion Hazards in Presence of Various Substances	Explosive in presence of heat.		

Section 10. Stability and Reactivity Data	
Stability	The product is stable.
Incompatibility with Various Substances	oxidizing agents
Hazardous Decomposition Products	Carbon Dioxide

Section 11. Toxico	logical Information
Routes of Entry	Eye Contact Ingestion. INHALATION Skin contact.
Toxicity to Animals	LD50: Not available. LC50: Not available.
Acute Effects on Humans	
Eyes	This product is an eye irritant. Inflammation of the eye is characterized by redness, watering, and itching.
Skin	Slightly irritating
Inhalation	Irritating to mouth, throat and stomach.
Ingestion	Aspiration hazard if swallowed- can enter lungs and cause damage. Gastrointestinal discomfort.
Chronic Effects on Humans	Repeated skin exposure can produce local skin destruction, or dermatitis. Harmful: danger of serious damage to health by prolonged exposure if swallowed.
Special Remarks on Toxicity to Animals	No additional remark.
Special Remarks on Chronic Effects on Humans	No additional remark.

Section 12. Ecolog	Section 12. Ecological Information	
Ecotoxicity	Not Available	
BOD5 and COD	Not Available	
Products of Biodegradation	Not Available	
Toxicity of the Products of Biodegradation	Not Applicable	
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 Information





TDG Classification TDG Class 3: Flammable liquid.



PIN UN, Proper Shipping UN1950 Aerosols, Flammable Name, PG

Maritime Transportation Not available.

Special Provisions for

Not applicable.

Transport

Section 15. Other Regulatory Information and Pictograms					
WHMIS (Classification)	WHMIS CLASS B-5: Flammable aerosol. WHMIS CLASS D-2: Material causing other toxic effects.				
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: Citrus Terpenes: Fire hazard, Immediate (Acute) Health Hazard			
	DSD (EEC)				
	International Regulations Lists	No products were found.			
Hazardous Material Information System (U.S.A.)	Health Flammability Physical Hazard	* 2 National Fire Protection Association (U.S.A.) Association Protection Pr			
		vide only a quick reference for hazard information. The ENTIRE Specific Hazard ds, First Aid measures, and PPE associated with this product.			

Section 16. Other Information

Validated by CRushton on 2/10/2005.

Verified by CRushton.

Printed 2/10/2005.

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.

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