







# Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

   <b>WHMIS (Pictograms)</b>	<b>WHMIS CLASS B-5:</b> Flammable aerosol. <b>WHMIS CLASS D-2:</b> Material causing other toxic effects.  <b>WHMIS (Classification)</b>	<b>HCS CLASS:</b> Flammable aerosol. <b>HCS CLASS:</b> Irritating substance.  <b>HCS</b>
---	---	---

## Section 1. Chemical Product and Company Identification

<b>Product Name/ Trade name</b> CitruSolv Spray	<b>Code</b> 021
<b>Synonym</b> Organic Solvent Cleaner/Degreaser	<b>Version Number</b> 2.0
<b>Chemical Family</b> N/A	<b>Validation Date</b> 6/16/2010
<b>Chemical Formula</b> Not applicable.	<b>Print Date</b> 6/16/2010
<b>Manufacturer/ Supplier</b> Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (419) 241-2156	<b>In Case of Emergency</b> Chemtrec (800) 424-9300
<b>TSCA</b> TSCA Inventory: All components listed or are exempt from listing.	<b>Protective Clothing</b> 
<b>DSL/ NDSL</b> All components listed unless noted elsewhere on this MSDS	

## Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
Hydrotreated Light Petroleum Distillate	64742-47-8	>1	TWA: 100 ppm <b>OSHA (United States).</b> TWA: 300 ppm	Not available.
Dimethyl Adipate	627-93-0	>1	Not available.	Not available.
Dimethyl Glutarate	1119-40-0	>1	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].
Carbon Dioxide	124-38-9	>1	<b>ACGIH TLV (United States).</b> TWA: 5000 ppm 8 hour(s). <b>OSHA (United States).</b> TWA: 5000 ppm	Not available.

## Section 3. Hazards Identification

<b>Potential Acute Health Effects</b>	Skin and eye irritant. Irritating to the mucous membranes of the nose, throat and lungs. Harmful if swallowed.
<b>Potential Chronic Health Effects</b>	May be fatal if swallowed.Repeated skin exposure can produce local skin destruction, or dermatitis.
<b>Carcinogenic Effects</b>	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.
Skin Contact	Wash contaminated skin with soap and water.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
Ingestion	Do not induce vomiting. Seek immediate medical attention.

### 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. Exposure Controls/Personal Protection

Engineering Controls	Good general ventilation should be sufficient to control airborne levels.
Personal Protection	
<i>Eyes</i>	Safety glasses.
<i>Body</i>	No special protective clothing is required.
<i>Respiratory</i>	Wear appropriate respirator when ventilation is inadequate.
<i>Hands</i>	Gloves.
Protective Clothing (Pictograms)	
Exposure Limits	See Section 2 For Applicable Exposure Limits

**Section 9. Physical and Chemical Properties**

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

**Section 10. Stability and Reactivity Data**

<b>Stability</b>	The product is stable.
<b>Incompatibility with Various Substances</b>	oxidizing agents
<b>Hazardous Decomposition Products</b>	Carbon Dioxide

### Section 11. Toxicological Information

<b>Routes of Entry</b>	Eye Contact Ingestion. INHALATION Skin contact.
<b>Toxicity to Animals</b>	LD50: Not available. LC50: Not available.
<b>Acute Effects on Humans</b>	<p><i>Eyes</i> This product is an eye irritant. Inflammation of the eye is characterized by redness, watering, and itching.</p> <p><i>Skin</i> Irritating to skin.</p> <p><i>Inhalation</i> Irritating to mouth, throat and stomach.</p> <p><i>Ingestion</i> Aspiration hazard if swallowed- can enter lungs and cause damage. Gastrointestinal discomfort. May be fatal if swallowed.</p>
<b>Chronic Effects on Humans</b>	May be fatal if swallowed.Repeated skin exposure can produce local skin destruction, or dermatitis.
<b>Special Remarks on Toxicity to Animals</b>	No additional remark.
<b>Special Remarks on Chronic Effects on Humans</b>	No additional remark.

### Section 12. Ecological Information

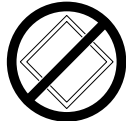
<b>Ecotoxicity</b>	Not Available
<b>BOD5 and COD</b>	Not Available
<b>Products of Biodegradation</b>	Not Available
<b>Toxicity of the Products of Biodegradation</b>	Not Applicable
<b>Special Remarks on the Products of Biodegradation</b>	No additional remark.

### Section 13. Disposal Considerations

<b>Waste Information</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
<b>Waste Stream</b>	Not available.

### Section 14. Transport Information

**DOT (U.S.A)  
(Pictograms)**



**TDG Classification** TDG Class 3: Flammable liquid.



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

Maritime Transportation Not available.

Special Provisions for Transport Not applicable.

### 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

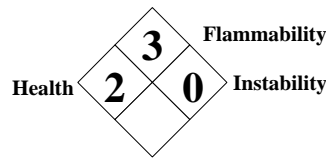
DSD (EEC)

International Regulations Lists No products were found.

Hazardous Material Information System (U.S.A.)

Health	*	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 6/16/2010.

Verified by CRushton.

Printed 6/16/2010.

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 6/16/2010.

CitruSolv Spray

Page: 5/5

Continued on Next Page