

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

WHMIS (Pictogram	(2)	WHMIS Class B-3: Combustible liquid with a flash point between 37.8 (100°F) and 93.3°C (200°F). WHMIS Class D-2B: Material causing othe toxic effects (TOXIC). WHMIS (Classification)		Class: (Combu etween	substance. stible liquid having a flash 37.8°C (100°F) and 93.3°C HCS
	Section 1. Chemical Product and Company Identification			nos		
Product Name/ Trade name	Citru	Solv Concentrate	Cod	le		209
Synonym	Natura	I Degreaser/Deodorizer	CAS	S #		Mixture.
Chemical Family	Not av	ailable.	Vali	idation D	ate	3/22/2004
Chemical Formula	Not ap	plicable.	Prin	nt Date		3/27/2004
Manufacturer/ Supplier	1001 E Toledo	Corporation Brown Avenue 9, Ohio 43607 241-2156	-	<u>ase of</u> r <u>gency</u>	Cher	ntrec (800) 424-9300
TSCA	TSCA I	nventory: All components listed or are exempt from listing.				
DSL/ NDSL	All com	ponents listed unless noted elsewhere on this MSDS			Prot	tective Clothing

Section 2. Composition and Information on Ingredients				
Name	CAS #	% by Weight	Exposure Limits	LC_{50}/LD_{50}
1) Citrus Terpenes	5989-27-5	95-100	Not available.	ORAL (LD50): Acute: 5000 mg/kg [Rat]. DERMAL (LD50): Acute: 5000 mg/kg [Rabbit].
2) Nonionic Surfactant	9016-45-9	0-5	Not available.	Not available.

Section 3. Hazards Identification		
Potential Acute Health Effects	This product may irritate eyes and skin upon contact. Harmful if swallowed. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.	
Potential Chronic Health Effects	May aggravate existing respiratory conditions such as asthma.	
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.	

Section 4. First Aid Measures		
Eye Contact	Flush eyes with large quantities of water. Seek medical attention if irritation persists.	
Skin Contact	Remove contaminated clothing. Flush with water. Seek medical attention if irritation occurs.	
Inhalation	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration., preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.	
Ingestion	Call a poison control center immediately for treatment advice. Do not induce vomiting.	

Section 5. Fire Fighting Measures		
Products of Combustion	Not Applicable	
Fire Fighting Media and Instructions	Foam, CO2, or dry chemical.	
Special Remarks on Fire Hazards	Do not use water.	
Special Remarks on Explosion Hazards	Drums heated by a fire can explode.	

Section 6. Accidental Release Measures		
Small Spill and Leak	Safety glasses.	
Large Spill and Leak	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). Face shield. Boots.	

Section 7. Handling and Storage		
Precautions	Avoid breathing vapors or spray mists. Avoid contact with skin and eyes. DO NOT ingest.	
Incompatibility	acids, oxidizing materials, lodine pentaflouroethylene	
Storage	Keep out of reach of children. For Institutional and Commercial Use Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.	

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

Physical State and Appearance	Liqiud	Odor	Pleasant.
Molecular Weight	Not applicable.	Taste	Not available.
рН	Not available.	Color	Colorless.
Boiling/Condensation Point	340°F initial		
Melting/Freezing Point			
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	0.85 (Water = 1)		

Vapor Pressure	<10mm Hg @ 68°F
Vapor Density	>1 (Air = 1)
Volatility	90
VOC	>95%
Evaporation Rate	Less than Butyl acetate.
Dispersion Properties	Not available.
Solubility	Soluble
The Product is:	COMBUSTIBLE.
Auto-ignition Temperature	Not available.
Flash Points	CLOSED CUP: 51.667°C (125°F).
Flammable Limits	Not Determined
Fire Hazards in Presence of Various Substances	COMBUSTIBLE.
Explosion Hazards in Presence of Various Substances	Drums Heated By Fire Can explode

Section 10. Stability and Reactivity Data	
Stability	Stable
Incompatibility with Various Substances	acids, oxidizing materials, lodine pentaflouroethylene
Hazardous Decomposition Products	None Known

Section 11. Toxicolog	gical Information
Routes of Entry	Eye Contact Ingestion. INHALATION Skin contact.
Toxicity to Animals	Irritant.
Acute Effects on Humans	
Eyes	Eye irritant. May cause redness, burning, or tearing.
Skin	Defatting to skin with prolonged or repeated contact.
Inhalation	May be irritating to mucous membranes of the nose, throat, and lungs.
Ingestion	May be irritating to the mouth, throat, and gastrointestinal system. Aspiration hazard if swallowed- can enter lungs and cause chemical pneumonitis.
Chronic Effects on Humans	May aggravate existing respiratory conditions such as asthma.
Special Remarks on Toxicity to Animals	No additional remark.
Special Remarks on Chronic Effects on Humans	Chemical pneumonitis.

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				
DOT (U.S.A) (Pictograms)	TANMARIA TOTO			
TDG Classification	3			
PIN UN, Proper Shipping Name, PG	Shipping name: Flammable liquids n.o.s./Combustible Liquids	UNNA: 1993 PG: III		
Maritime Transportation	Not available.			
Special Provisions for Transport	Not available.			

Section 15. Other Regulatory Information and Pictograms				
WHMIS (Classification)	WHMIS Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). WHMIS Class D-2B: Material causing other toxic effects (TOXIC).			
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: Irritating substance. Class: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F).		
	USA Regulatory Lists	California prop. 65: This product contain State of California has found to cause re require a warning under the statute: Ethy California prop. 65: This product contain State of California has found to cause ca the statute: Ethylene Oxide < 1 ppm	productive harm (female) which would ylene Oxide < 1 ppm	
		Massachusetts RTK: Ethylene Oxide		
		SARA 311/312 MSDS distribution - chen Citrus Terpenes: fire, immediate health h		

	DSD (EEC)	R10- Flammable.				
	International Regulations Lists	No products were found.				
Hazardous Material Information System (U.S.A.) Health * 2 Physical Hazard 2 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 or	n 3/22/2004.	Verified by CRushton. Printed 3/27/2004.				

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 3/22/2004.

CitruSolv Concentrate

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