

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

		E	HCS	CLASS	: Corrosive liquid.
WHMIS (Pictogram	ms)	WHMIS (Classification)			HCS
Section 1. Che	emica	I Product and Company Identification			
Product Name/ Trade name	Citr	us Chisel	Code		167
Synonym	Natura	al Citrus Cleaner/Degreaser	CAS #		Not applicable.
Chemical Family	Not av	vailable.	Validatio	on Date	3/2/2007
Chemical Formula	Not ap	oplicable.	Print Da	te	3/23/2007
Manufacturer/ Supplier	1001 Toled	Corporation Brown Avenue o, Ohio 43607 241-2156	In Case of Emergency		emtrec (800) 424-9300
TSCA	TSCA I	nventory: All components listed or are exempt from listing.			
DSL/ NDSL	All cor	nponents listed unless noted elsewhere on this MSDS		Pro	tective Clothing

Section 2. Composition and Information on Ingredients				
Name	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Sodium Metasilicate Nonionic Surfactant Cationic Surfactant Sodium Hydroxide	6834-92-0 9016-45-9 5197-80-8 1310-73-2	<10 <2 <2 1-5	Not available. Not available. Not available. TWA: 2 (mg/m ³) from OSHA (PEL) [United States]	Not available. Not available. Not available. Not available.
Tetrasodium salt of ethylendiaminetetraacetic acid	64-02-8	1-5	Not available.	ORAL (LD50): Acute: 3030 mg/kg [Rat].

Section 3. Hazards Identification		
Potential Acute Health Effects	Corrosive to skin and eyes on contact. Skin contact may produce burns. May be irritating to the mucous membranes of the nose, throat and lungs.	
Potential Chronic Health Effects	Over-exposure by inhalation may cause respiratory irritation. Prolonged exposure may result in skin burns and ulcerations.	
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.	

Section 4. Fir	Section 4. First Aid Measures		
Eye Contact	Corrosive to eyes and skin. Call a poison control center or doctor immediately for treatment advice. Hold eye open and rinse slowly and thoroughly with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.		
Skin Contact	Remove contaminated clothing and shoes. Rinse skin with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for further treatment advice.		
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.		

Call a poison control center immediately for treatment advice. Have person sip a glass of water if able to swallow. Do NOT induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person

Section 5. Fire Fig	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	No additional remark.	

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 an inert material and put the spilled material in an appropriate waste disposal.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves.

Section 7. Har	ndling and Storage
Precautions	Keep locked up. Keep container dry. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Avoid breathing vapors or spray mists. Keep out of reach of children. For Institutional and Commercial Use
Incompatibility	Strong acids. acids
Storage	Keep out of reach of children. Corrosive materials should be stored in a separate safety storage cabinet or room. For Institutional and Commercial Use 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

Eyes Splash goggles.

Body Work uniform or laboratory coat.

Respiratory Wear appropriate respirator when ventilation is inadequate.

Hands Gloves (impervious).

Protective Clothing (Pictograms)



Exposure Limits

Not available.

Section 9. Physical and Chemical Properties				
Physical State and Appearance	Liquid.	Odor	Pleasant.	
Molecular Weight	Not applicable.	Taste	Not available.	
рН	13 to 14 [Basic.]	Color	Orange.	
Boiling/Condensation Point	214°F initial			

Melting/Freezing Point	Not available.
Critical Temperature	Not available.
Instability Temperature	Not available.
Specific Gravity	1.06 (Water = 1)
Vapor Pressure	20mm Hg @ 68°F
Vapor Density	>1 (Air = 1)
Volatility	85
VOC	0.15% (By Weight)
Evaporation Rate	<1 compared to Water
Dispersion Properties	See solubility in water.
Solubility	Easily soluble in cold water.
The Product is:	Non-flammable.
Auto-ignition Temperature	Not available.
Flash Points	None to Boiling (TCC)
Flammable Limits	Not Applicable
Fire Hazards in Presence of Various Substances	Non-flammable.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of static discharge: Not available. Risks of explosion of the product in presence of mechanical impact: Not available.

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

Section 11. Toxico	ological Information
Routes of Entry	Eye Contact Ingestion. INHALATION Skin contact.
Toxicity to Animals	Acute oral toxicity (LD50): 3030 mg/kg [Rat]. (Tetrasodium EDTA).
Acute Effects on Humans	
Eyes	Corrosive to skin and eyes on contact. Eye contact can result in corneal damage .
Skin	Skin contact may produce burns.
Inhalation	Slightly irritating to the respiratory system.
Ingestion	Irritating to the mouth, throat, and gastrointestinal system. Large doses may cause vomiting and diarrhea. Irritating to mouth, throat and stomach. May cause burns to mouth, throat and stomach. May cause headache, dizziness, nausea, vomiting and diarrhea.
Chronic Effects on Humans	Over-exposure by inhalation may cause respiratory irritation. Prolonged exposure may result in skin burns and ulcerations.
Special Remarks on Toxicity to Animals	No additional remark.

Section 12. Ecolo	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	of 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 Information					
DOT (U.S.A) (Pictograms)	CORROSIVE				
TDG Classification	8	_			
PIN UN, Proper Shipping Name, PG	Shipping name: Corrosive liquids n.o.s. UNNA: UN1760	PG: II			
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.)	HCS CLASS: Corrosive liquid.				

	USA Regulatory Lists	California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Ethylene Oxide < 1 ppm California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Ethylene Oxide < 1 ppm Massachusetts RTK: Ethylene Oxide SARA 311/312: Sodium Metasilicate SARA 313: No components were found.		
	DSD (EEC)	R35- Causes severe burns.		
	International Regulations Lists	No products were found.		
Hazardous Material Information System (U.S.A.)	Health Flammability Physical Hazard	3National Fire0Protection0Association(U.S.A.)Health		
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 3/2/2007.

Verified by CRushton. Printed 3/23/2007.

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 3/2/2007.

Citrus Chisel

Page: 5/5

Continued on Next Page