

DSL/ NDSL

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

(T)		CLASS D-2B: Material causing other toxic effects (TOXIC). Class:	Class: Irritating substance.		
WHMIS (Pictogra	ms)	WHMIS (Classification)			HCS	
Section 1. Che	l Product and Company Identification					
Product Name/ Trade name	Citr	us Chisel (1:64 Dilution)	Code		167 Only	Diluted
Synonym	Natur	al Citrus Cleaner/Degreaser	CAS#		Not appl	
Chemical Family	Not a	vailable.	Validation	Date	10/20/200	08
Chemical Formula	Not a	oplicable.	Print Date	!	10/20/20	08
Manufacturer/ Supplier	1001 Toled	Corporation Brown Avenue o, Ohio 43607 241-2156	In Case of Emergency	Che	emtrec (80	0) 424-9300
TSCA	TSCA	Inventory: All components listed or are exempt from listing.				
DSI / NDSI	All cor	mnonents listed unless noted alsowhere on this MSDS		Pro	tective Clo	thing

Section 2. Composition and Information on Ingredients				
Name	CAS#	% by Weight	Exposure Limits	LC50/LD50
Water	7732-18-5	>95	Not available.	Not available.
Sodium Metasilicate	6834-92-0	<1	Not available.	Not available.
Tetrasodium salt of	64-02-8	<1	Not available.	ORAL (LD50): Acute:
ethylendiaminetetraacetic acid				3030 mg/kg [Rat].
Nonionic Surfactant	9016-45-9	<1	Not available.	Not available.
Cationic Surfactant	5197-80-8	<1	Not available.	Not available.
Nonionic Surfactant	61788-90-7	<1	Not available.	ORAL (LD50): Acute:
				4610 mg/kg [Rat].
Perfume Oil	N/A	<1	Not available.	Not available.
Dye	N/A	<1	Not available.	Not available.

All components listed unless noted elsewhere on this MSDS

Section 3. Hazards Identification		
Potential Acute Health Effects	This product may irritate eyes and skin upon contact. Harmful if swallowed.	
Potential Chronic Health Effects	Over-exposure by inhalation may cause respiratory irritation.	
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.	

Section 4. First Aid Measures		
Eye Contact	Avoid contact with skin and eyes In case of contact with eyes, rinse immediately with plenty of water. Seek immediate 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	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.	
Ingestion	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	N/A	
Special Remarks on Fire Hazards	N/A	
Special Remarks on Explosion Hazards	N/A	

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	Safety glasses. Boots. Gloves.	

Section 7. Handling and Storage		
Precautions	Keep out of the reach of children. After handling, always wash hands thoroughly with soap and water.	
Incompatibility	Strong acids.	
Storage	Keep out of the 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 Eyes	s Contact with the concentrated solution is unlikely when using through a dilution control system. Eye protection should be worn in operations where splashing may occur.	
Body	No special protective clothing is required.	
Respiratory	A respirator is not needed under normal and intended conditions of product use.	
Hands	Skin contact with concentrate is unlikely when using through a dilution control system. Persons with sensitive skin or existing skin conditions should wear nitrile gloves when using this product.	
Protective Clothing (Pictograms)		

Exposure Limits

Not available.

Section 9. Physica	al and Chemical Propertie	es	
Physical State and Appearance	Liquid.	Odor	Pleasant.
Molecular Weight	Not applicable.	Taste	Not available.
pН	11 to 11.5 [Basic.]	Color	Orange.
Boiling/Condensation Point	212°F initial		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	1.07 (Water = 1)		
Vapor Pressure	Not Determined		
Vapor Density	>1 (Air = 1)		
Volatility	>85%		
VOC	Negligible		
Evaporation Rate	(Water=1):<1		
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	Not Applicable		

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

Section 11. Toxicological 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 Human	s	
Ey	es Irritant. Inflammation of the eye is characterized by redness, watering, and itching.	
Sk	in Skin irritant. May cause redness or swelling. Prolonged or repeated contact may cause dermatitis.	
Inhalatio	on Slightly irritating to the respiratory system.	
Ingestic	Irritating to the mouth, throat, and gastrointestinal system. Large doses may cause vomiting and diarrhea.	
Chronic Effects on Humans	Over-exposure by inhalation may cause respiratory irritation.	
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 o Biodegradation	f 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)



TDG Classification Not a TDG controlled material.



PIN UN, Proper Shipping Name, PG

Maritime Transportation Not available.

Special Provisions for Transport

Not available.

WHMIS (Classification)	CLASS D-2B: Materia	I 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.		
	USA Regulatory Lists			
		SARA 311/312: Sodium Metasilicate SARA 313: No components were fou	ınd.	
	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.)	Health Flammability Physical Hazard	2 National Fire 0 Protection Association (U.S.A.)	Health 1 0 Instability	

Validated by CRushton on 10/20/2008.	Verified by CRushton.	
	Printed 10/20/2008.	
Information Contact Betco Corporation		
1001 Brown Avenue		
Toledo, Ohio 43607		

To the best of our knowledge, the information contained herein is accurate. However, neither the above named 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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