

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

CLASS E: Corrosive liquid.

Section 1. Chemical Product and Company Identification

1001 Brown Avenue

HCS CLASS: Corrosive liquid.

WHMIS (Pictograms)

TSCA

DSL/ NDSL

WHMIS (Classification)

HCS

	1 1		
Product Name/ Trade name	Liquid Chisel	Code	127
Synonym	Non Butyl Cleaner Degreaser	CAS#	Not applicable.
Chemical Family	Not available.	Validation Date	3/22/2004
Chemical Formula	Not applicable.	Print Date	3/27/2004
Manufacturer/ Supplier		In Case of C	nemtrec (800) 424-9300

Toledo, Ohio 43607 (419) 241-2156 TSCA Inventory: All components listed or are exempt from listing.

All components listed unless noted elsewhere on this MSDS

**Protective Clothing** 

Section 2. Composition and Information on Ingredients				
Name	CAS#	% by Weight	Exposure Limits	$\mathrm{LC}_{50}/\mathrm{LD}_{50}$
Sodium Metasilicate     Sodium Hydroxide	6834-92-0 1310-73-2	0-5 1-5	Not available. TWA: 2 (mg/m³) from OSHA (PEL) [United States]	Not available. Not available.
<ul><li>3) Nonionic Surfactant</li><li>4) Cationic Surfactant</li></ul>	9016-45-9 5197-80-8	0-5 0-5	Not available. Not available.	Not available. Not available.

Section 3. Hazards Identification		
Potential Acute Health Effects	Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.	
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.	

ol center or doctor immediately for treatment advice. Hold eye open and rinse y with water for 15 to 20 minutes. Remove contact lenses, if present, after the first inue rinsing eye.
ed clothing and shoes. Rinse skin with plenty of water for 15 to 20 minutes. Call a or doctor for further treatment advice.
sh air. If person is not breathing, call 911 or an ambulance, then give artificial bly mouth to mouth if possible. Call a poison control center or doctor for further
sh air. If person is not breathing, call 911 or an ambulance,

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 Fighting Measures	
<b>Products of Combustion</b>	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	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Section 7. Handling and Storage	
Precautions	Avoid contact with skin and eyes Avoid breathing vapors or spray mists.
Incompatibility	Strong acids.
Storage	Keep container dry. Keep in a cool place. Corrosive 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 0	Controls/Personal Protection
<b>Engineering Controls</b>	Good general ventilation should be sufficient to control airborne levels.
Personal Protection  Eyes	Splash goggles.
Body	Long Pants and Long Sleeves to avoid skin cotact.
Respiratory	In case of insufficient ventilation, wear suitable respiratory equipment.
Hands	Gloves (impervious).
Protective Clothing (Pictograms)	
<b>Exposure Limits</b>	Not available.

Section 9. Physical and Chemical Properties			
Physical State and Appearance	Liquid.	Odor	Characteristic.
Molecular Weight	Not applicable.	Taste	Not available.
рН	12.5 to 13.5 [Basic.]	Color	Green.
<b>Boiling/Condensation Point</b>	214°F initial		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		

<b>Instability Temperature</b>	Not available.
Specific Gravity	1.06 (Water = 1)
Vapor Pressure	20mm Hg @ 68°F
Vapor Density	>1 (Air = 1)
Volatility	85
VOC	0 (g/l).
<b>Evaporation Rate</b>	<1 compared to Water
<b>Dispersion Properties</b>	See solubility in water.
Solubility	Easily soluble in cold water.
The Product is:	May be combustible at high temperature.
Auto-ignition Temperature	Not available.
Flash Points	CLOSED CUP: >98.889°C (210°F).
Flammable Limits	Not available.
Fire Hazards in Presence of Various Substances	No specific information is available in our database regarding the flammability of this product in presence of various materials.
Explosion Hazards in Presence of Various Substances	No specific information is available in our database regarding the product's risks of explosion in the presence of various materials.

Stability The product is stable.  Incompatibility with Various Substances  Hazardous Decomposition Products  The product is stable.  Strong acids.	Section 10. Stability and Reactivity Data	
Substances  Hazardous Decomposition not available	Stability	The product is stable.
<u> </u>		Strong acids.
A AVUICE	Hazardous Decomposition Products	not available

Section 11. Toxicolog	ical Information
Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 3030 mg/kg [Rat]. (Tetrasodium EDTA).
Acute Effects on Humans	
Eyes	Severe eye irritant. May cause redness, swelling, or possible corneal injury.
Skin	Severe skin irritant. May cause redness or swelling. Prolonged or repeated contact may cause dermatitis.
Inhalation	Slightly irritating to the respiratory system.
Ingestion	Irritating to the mouth, throat, and gastrointestinal system. Large doses may cause vomiting and diarrhea.
<b>Chronic Effects on Humans</b>	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.
Special Remarks on Chronic Effects on Humans	No additional remark.

Section 12. Ecological Information				
Ecotoxicity	Not available.			
BOD5 and COD	WIII Not Occur			
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	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.	

## DOT (U.S.A) (Pictograms) TDG Classification Class 8: Corrosive material PIN UN, Proper Shipping Name, PG Maritime Transportation Not available. Special Provisions for Transport Not available.

WHMIS (Classification)	CLASS E: Corrosive liquid.			
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 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 cathe statute: Ethylene Oxide < 1 ppm	productive harm (female) which would ylene Oxide < 1 ppm	
		Pennsylvania RTK: Propylene Glycol Massachusetts RTK: Ethylene Oxide		
		SARA 311/312 MSDS distribution - cher Nonionic Surfactant: immediate health h		

	DSD (EEC)	R35- Causes severe burns.			
	International Regulations Lists	No products were found.			
Hazardous Material Information System (U.S.A.)	Health	3 National Fire Flammability			
	Flammability	Protection Association (U.S.A.) Health Instability			
	Physical Hazard	0 Association (C.S.A.)			
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.					

## Validated by CRushton on 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.

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