

# MATERIAL SAFETY DATA SHEET

<b>PRODUCT NAME</b> Lectramotive Cleaner (bulk)#05019,05022 05024	<b>#</b> MSDS005019
<b>MANUFACTURED BY:</b> CRC CHEMICALS	<b>Phone</b> (215) 674-4300
885 LOUIS DRIVE, WARMINSTER, PA. 18974	

1. INGREDIENTS	CAS #	ACGIH TLV	OSHA PEL	Other Limits	%
* 1,1,1 Trichloroethane	71-55-6	350	350		93.4
*Tert-butyl alcohol	75-65-0	100	100		} <6.6
1,2 Butylene oxide	106-88-7	N/A	N/A		
Dimethoxymethane	109-87-5	1000	NA		

\* These chemicals on Toxic Chemicals List found in Section 313 of the Emergency Planning and Community Right-to-Know Act (SARA Title III) and is subject to release inventory reporting under the Act.

## 2. PHYSICAL DATA

Specific Gravity	1.293 @70°F	Vapor Pressure	100 mm Hg @20°C	% Volatile	100 %
Boiling Point	164 °F	Evaporation Rate	Rapid		
Freezing Point	N/A	Vapor Density	4.55 (air = 1)		
Appearance and Odor	Colorless liquid, irritating odor at high concentrations.				
Solubility	Slight solubility in water - good solvent for many organic materials.				

## 3. FIRE AND EXPLOSION DATA

Flashpoint	None	Method	TCC, COC, TOC	Flammable Limits
Extinguishing Media	Water, fog			LEL 6 UEL 16.7
Unusual Hazards	N/A			

## 4. REACTIVITY AND STABILITY

Stability	Good - Avoid exposures to high temperatures (open flames, arcs, etc.)			
Hazardous decomposition products	Thermal - Hydrogen chloride, chlorine and some phosgene.			
Materials to avoid	Avoid storage in aluminum containers or contact with aluminum and/or zinc powders.			

## 5. PROTECTION INFORMATION

Ventilation	Maintain vapor concentrations below TLV - use mechanical ventilation if neces			
Respiratory	Above TLV use self contained breathing apparatus (air mask or vapor mask)			
Gloves	Solvent resistant	Eye & Face	Safety glasses	
Other Protective Equipment	Aprons and boots may be used if exposure is severe.			

**6. HEALTH HAZARD DATA**

Primary Routes of Entry                    Inhalation and skin contact

**Signs and Symptoms of Exposure**

- 1. Acute Overexposure                    Inhalation - headaches, dizziness, anesthetic effects, unconsciousne  
Eyes - causes pain and some irritation. Skin - causes irritation  
on repeated exposures.
- 2. Chronic Overexposure                    Repeated overexposures may cause liver and kidney effects.

Medical Conditions Generally Aggravated by Exposure                    High levels may cause cardiac arrhythmias  
(over 8000 ppm).

Chemical Listed as Carcinogen or Potential Carcinogen	National Toxicology Program	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	IAAC Monographs	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	OSHA	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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**Emergency and First Aid Procedures** ( if symptoms persist, call a physician )

- 1. Inhalation                    Remove to fresh air - apply artificial respiration if needed.
- 2. Eyes                    Flush with large amounts of water for 15 minutes.
- 3. Skin                    Remove contaminated clothing. Wash exposed skin with soap and water.
- 4. Ingestion                    Do not induce vomiting - call a physician.

**7. SPILL OR LEAK PROCEDURES**

Precautions to be taken in  
Handling and Storage                    Store in a cool, dry area. Do not store in aluminum containers.

Steps to be taken in case  
Materials is released or spilled                    Keep out of water supply. Ventilate area. Do not enter spill area  
without a mask. Dike area and pump into containers or use absorbent to  
pick up.

Waste Disposal                    Treat as Hazardous Waste. Dispose of in conformance with Local, State and  
Federal regulations.

**8. SPECIAL PRECAUTIONS AND USE DIRECTIONS**

Avoid                    contact with skin. Avoid                    breathing of vapors. Vapors are  
heavier than air and will collect in low areas such as pits, storage tanks, the hold of  
a ship, etc. If vapors are suspected in low areas, do not enter unless special breathing  
apparatus is used and an observer is present for assistance.

PREPARED BY:                    Allen B. Reed

ORIGINAL DATE OR DATE OF REVISION                    9-89