

## MSDS

ITEM NUMBER: C-709 – ELECTRONIC CONTACT CLEANER

IDENTITY (As Used On Label and List): ELECTRONIC CONTACT CLEANER

EMERGENCY MEDICAL Telephone# 1-800-228-5635 (24 Hrs)

Outside of the U.S.A. Call 651-632-9275

PRODUCT HAZARD RATINGS (NFPA): Health = 1, Fire = 4, Reactivity = 0, Protective Equipment = \*A  
(Rating Legend: 4 = Extreme, 3 = Serious, 2 = Moderate, 1 = Slight, 0 = Minimal)

## SECTION I

CLAIRE MANUFACTURING  
500 VISTA AVE.  
ADDISON, IL 60101TELEPHONE NUMBER FOR INFORMATION: 1-800-252-4731  
DATE PRINTED: 4/11/01  
NAME OF PREPARER: Ron Cepa

## SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Chemical Names	Exposure Limits (LD50-Oral Rat)	SARA Title III SEC 313	ACGIH TLV/TWA	OSHA PEL	% By Wt.
Methanol (CAS# 67-56-1)	5.6 g/kg	YES	200ppm	200ppm	<1.0
Cyclohexane (CAS# 110-82-7)	12.7 g/kg	YES	300ppm	300ppm	15-20
Isohexane (CAS# 107-83-5)	ND	NO	500ppm*	500ppm*	15-17
3-Methylpentane (CAS# 96-14-0)	ND	NO	500ppm*	500ppm*	3-4
2,3 Dimethylbutane (CAS# 79-29-8)	ND	NO	500ppm*	500ppm*	4-5
2,2 Dimethylbutane (CAS# 75-83-2)	ND	NO	500ppm*	500ppm*	3-4
Isoparaffinic Solvent (CAS# 64741-66-8)	ND	NO	ND	ND	5-10
Pentane (CAS#109-66-0)	ND	NO	600ppm	600ppm	30-35
Heptane (CAS# 142-82-5)	ND	NO	400ppm	500ppm	1-5
Carbon Dioxide (CAS# 124-38-9)	NA	NO	5,000ppm	10,000ppm	3-5

\* For Hexane Isomers

Unidentified ingredients are not considered hazardous under the Federal Hazard Communication Standard.

Components Listed As A Suspected Carcinogen: None

## SECTION III - PHYSICAL CHARACTERISTICS

Boiling Point: NA      Vapor Pressure (psig): 100+/-5@130F      Specific Gravity (H2O=1): <1.0  
 Solubility/Water: Negligible      Vapor Density (AIR=1): >1      Evaporation Rate (Ether=1): <1  
 Appearance and Odor: Clear Liquid/Mild Odor

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Aerosol Flammability: This product is considered to be extremely flammable as described in 16CFR 1500.45.

Flammable Limits - % Volume In Air: Pentane      LEL: 1.4      UEL: 8.3

Extinguishing Media: Carbon dioxide, foam and/or dry chemical may be used.

Special Fire Fighting Procedures: Containers should be cooled with water to prevent vapor pressure build up. Use equipment or shielding, as required, to protect personnel from bursting, rupturing or venting containers. Unusual Fire and Explosion Hazards: At elevated temperatures (over 54C-130F) containers exposed to direct flame or heat contact should be cooled with water to prevent weakening of container structure.

## SECTION V - REACTIVITY DATA

Stability: Stable      Hazardous Polymerization: NA

Incompatibility (Materials to Avoid): Oxidizing agents      Hazardous Decomposition Products:

Carbon Dioxide, Carbon Monoxide and additional toxic chemicals may be formed in small amounts.

Conditions to Avoid: Do not store above 54C-130F. Keep away from heat, direct sunlight, open flames or sparks.

Dropping of containers may cause bursting.

## SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry - Inhalation: X      Eyes: X      Skin: X      Ingestion: X

Signs and Symptoms of Exposure: Inhalation may cause irritation of the nose and throat, irritation of the digestive tract and headache, dizziness, etc. Skin contact may cause mild irritation including redness, burning, and drying and

cracking of the skin. Eye contact may cause mild eye irritation including stinging, watering, and redness. Low degree of toxicity by ingestion. An aspiration hazard (breathing of liquid into lungs).

Medical Conditions Generally Aggravated by Exposure: Preexisting skin or eye disorders may be aggravated by exposure to this product.

Emergency and First Aid Procedures: Eye Contact: Flush eyes with plenty of water for 15 minutes while holding eyelids open. Get medical attention if irritation persists. Skin Contact: Remove contaminated clothing. Flush skin with water; follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned. Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention. Ingestion: Do not induce vomiting. Get medical attention.

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#### SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

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Releases or Spilled: Remove all sources of ignition and ventilate area. Soak up spill with an inert absorbent and place into a designated disposal container. Consult local regulatory agency for proper disposition of material.

Waste Disposal Method: Do not puncture or incinerate containers. When contents are depleted continue to depress button until all gas is expelled. Dispose of container in accordance with local, state, and federal regulations.

Handling And Storing: Avoid breathing vapor. Keep away from heat and flame. Use with adequate ventilation. Do not puncture or incinerate containers. Do not expose to direct sunlight or store at temperatures above 130F (54C).

Store as Level 3 Aerosol (NFPA 30B).

Other Precautions: Please read and follow the directions on the product label; they are your best guide to using this product in the most effective way, and give the necessary safety precautions to protect your health.

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#### SECTION VIII - EMPLOYEE PROTECTION

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Respiratory Protection (Type): None required if good ventilation is maintained. If exposure exceeds occupational exposure limits (Sec. II), use a NIOSH approved respirator to prevent overexposure.

Ventilation: Local exhaust is adequate under normal conditions, mechanical ventilation is optional.

Protective Gloves: Chemical resistant gloves\*.(optional)

Eye Protection: Chemical safety glasses are recommended\*.

Other Protective Clothing or Equipment: Wear impervious clothing to prevent skin contact.

Work/Hygienic Practices: Ensure strict sanitary conditions are conformed to when working around chemicals.

Protective clothing and equipment should be in accordance with 29 CFR 1910.132 and CFR 1910.133.

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#### SECTION IX - OTHER REGULATORY CONTROLS

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Governmental Listings: Ingredients of this product are listed on the EPA/TSCA Inventory of Chemical Substances.

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#### SECTION X - TRANSPORTATION REQUIREMENTS (D.O.T. CLASSIFICATION)

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Shipping Name: Consumer Commodity Hazard Class: ORM-D

NG-- Negligible NA-- Not Applicable NE-- Not Established UN-- Unavailable ND-- Not Determined

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As of: May 13, 1998