Electrosolve Contact Cleaner

409B

- Fast dry
- Safe on plastics
- Zero residue

Contains isohexanes. Use when a zero residue contact cleaner is required. An effective and powerful cleaner that quickly penetrates and dissolves most soil types. For use on most electronic parts and equipment including connectors, contacts, LED's, PCB's, components, circuit breakers, tuners and microprocessors. Variable valve allows user to control rate of flow. Extra effective with the use of M.G. Cat.#'s 852 and 853 Hog Hair cleaning brushes.

Available Sizes

Catalog Number	Sizes Available	Description
409B-140G	140g (5 oz)	Aerosol
409B-340G	340g (12 oz)	Aerosol

Material Safety Data Sheet

Section 1: Product Identification

MSDS Code: 409B -aerosol Name: Electrosolve Contact Cleaner

Related Part Numbers: 409B-140G; 409B-340G

Use: Zero residue contact cleaner for electronics.

Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha Pel	Osha Stel
75-83-2	2,2 dimethylbutane	9-10%	500ppm	500ppm	N/E
96-14-0	3-methyl pentane	12-13%	500ppm	500ppm	N/E
79-29-8	2,3 dimethyl butane	12-13%	500ppm	500ppm	N/E
107-83-5	2 - methyl pentane	31-34%	500ppm	500ppm	N/E
811-97-2	1,1,1,2 tetrafluoroethane	25-27.5%	1000ppm	N/E	N/E
110-54-3	n-hexane	2.25-2.50%	50ppm	500 ppm	500ppm

Section 3: Hazards Identification

Eyes: May cause mild eye irritation.

Skin: May cause mild skin irritation.

Inhalation: May cause irritation of respiratory tract. Vapor reduces amount of oxygen available for breathing.

Ingestion: Aspiration hazard. May cause weakness and gastrointestinal tract irritation.

Chronic: None known.

Section 4: First Aid Measure

Eyes: Remove contact lenses. Flush with water. Get medical aid.

Skin: Wash skin with soap and water. Get medical aid if symptoms persist.

Inhalation: Immediately remove from exposure to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Ingestion: Do not induce vomiting. If conscious, give 1-2 glasses of water. Get medical aid.

Section 5: Fire Fighting Measures

Autoignition Temperature: N/e **Flash Point:** -29°C **LEL / UEL:** 1 / 7

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

General Information: Will burn if involved in a fire. Containers may explode in the heat of a fire. Highly flammable vapors are heavier than air and may accumulate in low areas. Flash back along vapor trail is possible.

Section 6: Accidental Release Measures

Spill Procedure: Remove all sources of ignition. Provide adequate ventilation. Wear appropriate personal protection. Sprinkle absorbent compound onto spill, then sweep into a plastic or metal container. Wipe up further residue with paper towel and place in container. Wash spill area with soap and water.

Section 7: Handling and Storage

Handling: Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale. Do not expose container to heat or flame.

Storage: Keep away from sources of ignition. Store in a cool, dry, well-ventilated area, away from incompatible substances.

Section 8: Exposure Controls

Routes of entry: Eyes, ingestion, inhalation, and skin.

Ventilation: Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.

Personal Protection: Wear appropriate protective eyeglasses or chemical safety goggles. Wear appropriate protective clothing to prevent skin contact. Use a NIOSH approved respirator when necessary.

Section 9: Physical and Chemical Properties

Physical State:	Aerosol	**Odor:**	Mild hydrocarbon	**Solubility:**	Insoluble	**Evaporation Rate:**	Rapid		
Boiling Point:	52°C/125°F	**Specific Gravity:**	0.80	**Vapor Pressure:**	47 PSI @21°C	**Vapor Density:**	1.5 (Air=1)	**pH:**	7

Section 10: Stability and Reactivity

Stability: Stable at normal temperatures and pressures.

Conditions to avoid: Temperatures over 40°C, ignition sources, and incompatible substances.

Incompatibilities: Finely divided metals, magnesium and alloys containing more than 2% magnesium. Alkali metals and alkaline earth metals-sodium, potassium and barium. Strong oxidizing agents.

Polymerization: Will not occur.

Decomposition: Carbon monoxide, carbon dioxide, hydrogen fluoride by thermal decompostion and hydrolysis.

Section 11: Toxicological Information

Sensitization: (effects of repeated exposure) Repeated skin contact may cause defatting of the skin resulting in dermatitis. Long-term intensive inhalation may cause benign lung fibrosis.

Carcinogenicity: (risk of cancer) No

Teratogenicity: (risk of malformation in an unborn fetus) No

Reproductive Toxicity: (risk of sterility) No

Mutangenicity: (risk of heritable genetic effects) No

Lethal Exposure Concentrations:	**Ingestion (LD50):**	**Inhalation (LC50):**	**Skin (LD50):**	**Inhalation (TCLo):**
2,2 dimethylbutane	N/E	N/E	N/E	N/E
3-methyl pentane	N/E	N/E	N/E	N/E
2,3 dimethyl butane	N/E	N/E	N/E	N/E

USA

SARA (Superfund Amendments and Reauthorization Act of 1986, USA, 40CFR 372.4)

This product contains **n-Hexane** 2.25% CAS# 110-54-3 a chemical which is subject to the reporting requirements of section 313 Title III of the SARA of 1986 and CFR 372.4.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45

This product contains **n-Hexane** 2.25% CAS# 110-54-3 a chemical which is subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

California Proposition 65 (Chemicals know to cause cancer or reproductive toxicity, May 1, 1997 revision, USA)

This product does not contain any chemicals listed.

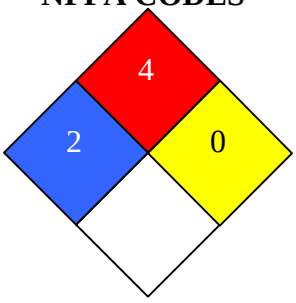
California Air Resource Board Consumer Products Regulations

This product complies with the Electronics Cleaner category limit of 75% VOC's by weight.

HMIS RATING

HEALTH:	2
FLAMMABILITY:	3
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

NFPA CODES



EUROPE

RoHS

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, or PBDE's, and complies with European RoHS regulations.

WEEE

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

Section 16: Other Information

Definitions: N/A = not applicable, N/E = not established

Disclaimer: This material safety data sheet is provided as an information resource only. M.G. Chemicals believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.