

Flux Remover for PC Boards



4140

A special blend of ethyl alcohol, isopropanol and ethyl acetate. Excellent for removing rosin, non-rosin, no clean fluxes, and ionic contamination.

- Moderate evaporation
- Highly flammable
- Low odor
- Zero residue



Available Sizes

Catalog Number	Sizes Available	Description	
<u>4140-P</u>	10 ml (0.34 oz)	Felt Pen	
4140-400G	400 g (14 oz)	Aerosol	
4140-1L	1 L (33 oz)	Liquid	
4140-4L	4 L (1 gallon)	Liquid	
4140-20L	20 L (5 gallons)	Liquid	





Material Safety Data Sheet

Section 1: Product Identification

MSDS Code: 4140 – liquid Name: Flux Remover - Plastic Safe

Related Part Numbers: 4140-500ML; 4140-1L; 4140-4L; 4140-20L; 4140-P

Use: For removing flux.

Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha Pel	Osha Stel
64-17-5	Ethanol	80 - 90	1000ppm	1000ppm	1000ppm
141-78-6	Ethyl acetate	1 - 5	400ppm	400ppm	N/e
67-63-0	2-propanol	2 - 10	400ppm	400ppm	500ppm

Section 3: Hazards Identification

WHMIS Codes: B2, D2B

NFPA Ratings: Health 1 Flammability 3 Reactivity 0
HMIS Ratings: Health 1 Flammability 3 Reactivity 0

Eyes: Causes severe eye irritation, characterized by a burning sensation, redness, tearing, inflammation,

and possible corneal injury.

Skin: May cause skin irritation.

Inhalation: May cause respiratory tract irritation, inhalation of high concentrations may cause central nervous

system effects characterized by headache, dizziness, and unconsciousness.

Ingestion: Harmful if swallowed. May cause gastrointestinal irritation with nausea, diarrhea, vomiting,

faintness, lack of coordination and coma.

Chronic: Long-term intensive exposure may cause liver or kidney damage.

Section 4: First Aid Measure

Eyes: Remove contact lenses. Flush with water or saline for 20 minutes. Get medical aid.

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

Inhalation: Immediately remove and expose 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: 427°C Flash Point: 16°C LEL / UEL: 3/19

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.

Section 6: Accidental Release Measures

Spill Remove all sources of ignition. Provide adequate ventilation. Wear appropriate personal protection.

Procedure: 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.

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

substances.

Section 8: Exposure Controls

Routes of Eyes, ingestion, inhalation, and skin.

entry:

Personal

Ventilation:

Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure

Wear appropriate protective eyeglasses or chemical safety goggles. Wear appropriate protective

Protection: clothing to prevent skin contact. Use a NIOSH approved respirator when necessary.

Section 9: Physical and Chemical Properties

Physical Liquid Odor: Ethereal Solubility: Miscible Evaporation 1 8 State: Rate: (ether =

1)

Boilina 79°C Specific 0.79 Vapor 1 PSI Vapor 0.811 pH: N/a

Point: Gravity: Pressure: @20°C Density: (Air=1)

Section 10: Stability and Reactivity

Stability: Stable at normal temperatures and pressures.

Conditions to Temperatures over 40°C, ignition sources, and incompatible materials. Exposure to moist air

or water avoid:

Alkali and alkaline earth metals, powdered aluminum, zinc, magnesium, and beryllium, Incompatibilities:

acids, acid anhydrides, oxidizing agents, reducing agents.

Polymerization: Has not been reported.

Halogens, halogen acids, possibly carbonyl halides, carbon dioxide, and carbon monoxide. Decomposition:

Section 11: Toxicological Information

Sensitization: (effects of repeated exposure) Repeated eye contact may cause conjunctivitis.

Repeated skin contact may cause dermatitis.

Carcinogenicity: (risk of cancer) Not known to.

Teratogenicity: (risk of malformation in an unborn

fetus)

No

Reproductive Toxicity: (risk of sterility) No

Mutangenicity: (risk of heritable genetic effects) No

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Lethal Exposure Concentrations:

Ingestion 7g/kg (LD50): (rat)

Inhalatio >320.00 n (LC50): 0 /4h

(LD50)

Skin 20 a/ka (rabbit)

Section 12: Ecological Information

General Avoid runoff into storms and sewers, which lead into waterways. Water runoff can cause

Information: environmental damage.

Environmental Impact Data: (percentage by weight)

CFC: 0 **HFC**: 0 CI.Solv: 0 VOC: 100 HCFC: 0 **ODP**: 0

Section 13: Disposal Information

Dispose of in accordance with all local, provincial, state, and federal regulations. Water runoff General

Information: can cause environmental damage.

Section 14: Transportation Information

Ground: (all sizes 1 liter or less) Consumer Commodity, ORM-D Ground: (all sizes larger than 1 liter)

Shipping Name-Alcohols N.O.S. [Ethanol] Flash Point 13°C, Class 3, UN# 1987, Packing Group II, Subsidiary Risknil, Use only MG Chemicals UN certified outer cartons. Tape all seems on carton. Hazard Label required-Flammable Liquid. A double arrow orientation label is required and is already printed on the original outer carton. Shipper must be trained and certified to handle documented dangerous goods. Refer to CFR 49, TDG regulations (Canada).

Air:

Shipper must be trained and certified. Refer to IATA regulations.

Sea

Class 3, UN# 1987, Packing Group II. Shipper must be trained and certified. Refer to IMDG regulations.

Section 15: Regulatory Information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

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

None of the chemicals in this product have a reportable quantity.

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

This product does not contain any chemicals 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.

CAA (Clean Air Act, USA)

This product does not contain any class 1-ozone depletors.

This product does not contain any class 2-ozone depletors.

This product does not contain any chemicals listed as hazardous air pollutants.

California Proposition 65 (Chemicals know to cause cancer or reproductive toxicity, May 1, 1997 revision, USA) This product does not contain any chemicals listed.

Labeling and containers used in this product are listed in compliance with Consumer Chemicals and Container regulations.

Environment Canada

Chemicals in this product are listed on the Domestic Substances List in the Canadian Environmental Protection Act This product does not contain any ozone depleting substances.

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