

Material Safety Data Sheet

ELECTRON Aerosol Environmentally Preferred Dielectric Solvent

Rev. 12/17/2012

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FOR CHEMICAL EMERGENCY
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Section I: Product Identification

Product name: ELECTRON (A)
Synonym: Proprietary Blend
Molecular Formula: Proprietary Blend

The "Plain English" Section

Material Safety Data Sheets can be confusing. Federal law requires us to print a great deal of technical information, which probably won't help the non-scientist. ECOLINK includes this "PLAIN ENGLISH" section, written to address the questions and concerns of the average person. If you have additional health, safety or product questions, don't hesitate to call us at 800/886-8240.

Health Hazards: ELECTRON (A) is an industrial chemical. We call it "environmentally preferred" because it is intended to replace products that are more hazardous such as trichloroethylene, n-propyl bromide, MEK, etc.. This does not mean that ELECTRON (A) is completely harmless. It is strong enough to remove tough industrial soils, so it can irritate your skin. We suggest you wear gloves, and avoid extended exposure to unprotected skin. Don't get it in your eyes, or breath large amounts of the vapor, (it will dry out your nasal passages). For more exposure and first aid information, refer to MSDS Sections II, VI.

Flammability: Atomized sprays of ELECTRON (A) are flammable and can ignite if sprayed around fire, flame or hot surfaces. Don't use this product around welding or any other hot work area. If ELECTRON (A) is used on rags, the rags can ignite if exposed to an open flame because the solvent is "wicked" onto the cloth. Be sure to dispose of rags in an airtight container specifically designed to prevent combustion.

Disposal: The liquid contents of ELECTRON (A) are classified as an ignitable hazardous waste, EPA waste number D001. If you are not sure how to dispose of used ELECTRON (A) give us a call and we will help you make the right decision.

Section II: Hazardous Components

Chemical Name	Naphtha (petroleum), hydrotreated heavy
CAS No.	64742-48-9
Approx. wt. %	50-70%
Exposure Limits	ACGIH-TLV/OSHA PEL: Not Established MREL: 1200 mg/m3 (196 ppm)*

Chemical Name	Citrus Terpene
CAS No.	68647-72-3
Approx. wt.%	30-40%
Exposure Limits	ACGIH-TLV – Not Established OSHA-PEL – Not Established

Chemical Name	Carbon Dioxide
CAS No.	124-38-9
Approx. wt.%	1-5%
Exposure Limits	ACGIH-TLV – 5000 ppm OSHA-PEL – 5000 ppm

*MREL - Manufacturer's Recommended Exposure Limit

ALL MATERIALS IN PRODUCT ARE TSCA LISTED

RCRA REGULATED:	Yes (Refer to Sec. VIII)
CERCLA (superfund):	N/A
DOT Regulated:	Yes
DOT Haz. Class:	ORM-D
DOT Shipping Name:	Consumer commodity
DOT Number:	ID8000

(Questions concerning DOT information refer to DOT manual CFR 49, Chapter 1, 10/96 edition)

Section III: Physical Data

Boiling Point:	320°F. @ 760 mm Hg
Specific Gravity:	0.784
Vapor Pressure (liquid):	0.33 mm Hg @ 68° F
Vapor Density (AIR=1):	>1
Evaporation Rate (n-BuAc=1):	<1
Solubility In Water:	Nil
VOC Content	784 g/l
Appearance & Odor:	Colorless liquid with mild citrus terpene odor

Section IV: Fire & Explosion Hazard Data

Flash Point (Method): 110 F Tag Closed Cup

Flammable Limits:

LEL	0.7%
UEL	7.0%

Extinguishing Media:

Regular foam, carbon dioxide, dry chemical.

Special Fire Fighting Procedures:

Keep fire exposed containers cool with water. Fire fighters should wear self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode with appropriate gear and chemical resistant personal protective equipment.

Unusual Fire & Explosion Hazards:

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point. Mixing with strong acids may cause violent chemical reaction. Contaminated rags may spontaneously combust if left out in the open.

Section V: Reactivity Data

Stability: Stable

Conditions to Avoid:

Sources of ignition such as sparks, hot spots, welding, flames and cigarettes. Ignition/flash may result if concentration of product is in flammable range.

(See section IV for LEL and UEL values)

Incompatibility (Materials to Avoid) : Strong oxidizing agents and/or strong acids.

Hazardous Decomposition:

May form carbon dioxide and carbon monoxide.

Hazardous Polymerization:

Will not occur.

Section VI: Health Hazard Data

Primary Routes of Exposure:

Oral, inhalation, & skin

Ingestion:

Swallowing large amounts may be harmful, by causing gastrointestinal irritation. Aspiration into lungs after ingestion can cause lung pneumonia

Inhalation:

Breathing large amounts may be harmful, by causing nose, throat, respiratory tract irritation.

Eyes:

Irritant. Liquid contact will irritate eyes and may cause stinging, tearing, and redness.

Skin or Contact:

May cause mild irritation of redness and burning.

First Aid:

Ingestion:

Seek medical attention immediately. Do not induce vomiting. If individual is drowsy or unconscious, do not give anything by mouth; place individual on left side with head down. Contact medical facility or poison control center for advice on whether to induce vomiting.

Inhalation:

Remove to fresh air, if breathing is difficult, give oxygen. Keep person warm and quiet. Seek medical attention.

Eyes:

Irrigate immediately with water for at least 15 minutes. Get medical attention if irritation persists.

Skin:

Wash with soap and water. Thoroughly clean contaminated clothes and shoes before re-use. If symptoms persist, seek medical attention.

Carcinogen:

NTP – Not Listed
IARC Monographs – None
OSHA REGS – Not Regulated

Section VII: Precautions for Safe Handling

HMIS Information:

Health – 1	Reactivity – 0
Flammability – 2	Personal Protection – B

HMIS Definition:

0 – Minimal 1 – Slight 2 – Moderate 3 – Serious
4 – Extreme

"1" in the Health Category denotes material does not target any major organs.

"**" in the Health Category denotes material may target certain organs.

Eye Protection:

Safety glasses or goggles

Protective Gloves:

Nitrile gloves are recommended for extended exposure or immersion of hands. Butyl rubber gloves may be used for incidental contact.

Respiratory Protection:

Not required under conditions of normal use. If vapor mist is present use NIOSH certified organic vapor mask.

Ventilation: Local exhaust/hood or fan may be used.

Other Protective Clothing: Non required under normal use.

Work Practices: Treat this chemical with respect and follow all MSDS instructions.

Section VIII: Control Measures

Small Spill: Absorb liquid on vermiculite, floor absorbent, or other absorbent material and transfer to hood.

Large Spill: Eliminate all ignition sources, (flares flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams, etc. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Transfer contaminated, absorbent soil and other materials to containers for disposal.

Waste Disposal Method: Liquid spills of ELECTRON (A) are considered ignitable hazardous waster under RCRA. The EPA hazardous waste number is D001. Soils removed during cleaning may affect the hazard classification of your waste stream. Please call us if you need additional disposal information.

Precautions To Be Taken In Handling & Storing: Since empty containers contain product residues, all hazard precautions given in the material safety data sheet must be observed. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperatures may result in ignition. Store contaminated rags in a tightly closed oil rag can to prevent spontaneous combustion.

Other Precautions: Keep this and all chemicals out of the reach of children.

Section IX: Part Number and Packaging

<u>Product Name</u>	<u>Part No.</u>	<u>Packaging</u>	<u>National Stock No.</u>
ELECTRON (A)	365-1	12 x 16 oz net Aerosol	6850-01-371-8048

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END OF MSDS