

MATERIAL SAFETY DATA SHEET

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GENERAL INFORMATION # : 314-647-1888
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I-PRODUCT IDENTIFICATION

ELECTRA

PRODUCT CODE: #093

CHEMICAL FORMULATION: ELECTRICAL CONTACT CLEANER/DEGREASER

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY:

HAZARD RATING: 4- Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - HAZARDOUS INGREDIENTS

Hazardous Components (Specific Chemical Identity; Common Name (s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits	
				Recommended	% optional
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	1000ppm	1000ppm	STEL 1250ppm	75-90%
	74-98-6	1000ppm	(asphyxiant)		5-10%

1,1,2-Trichloro-1,2,2-trifluoroethane (syn. Freon 113) may require reporting under SARA Title III Sec. 313 if used over threshold quantities. Reference 40 CFR Part 372. Any substance listed as hazardous by the states of California, Massachusetts, New Jersey and Pennsylvania are described above if known present in regulated concentrations.

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling Level STEL: Short Term Exposure Limit

N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No

302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).

355: SARA TITLE III/ List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).

372: SARA TITLE III/ List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - PHYSICAL DATA

BOILING POINT (C/F): 117.6°F	MELTING POINT: N/D
VAPOR PRESSURE (mm Hg.)Psig 334	SPECIFIC GRAVITY (WATER = 1): 1.56
VAPOR DENSITY (AIR = 1): N/D	VOC CONTENT (% by weight):
SOLUBILITY IN WATER: SLIGHT	EVAPORATION RATE (Water = 1): 4.5
	pH:

APPEARANCE AND ODOR: CLEAR, COLORLESS

IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (F/(C)): NONE TO BOILING POINT (TEST METHOD):
FLAMMABLE LIMITS: N/D UPPER: N/D LOWER: N/D
EXTINGUISHING MEDIA: CARBON DIOXIDE, FOAM

SPECIAL FIRE FIGHTING PROCEDURES: KEEP EXPOSED CONTAINERS COOL WITH WATERSPRAY TO PREVENT CONTAINER FAILURE. PREVENT RUNOFF FROM ENTERING SEWERS AND PUBLIC WATERSOURCES.

UNUSUAL FIRE AND EXPLOSION HAZARD: AEROSOL CONTAINER (PRESSURIZED).

V - REACTIVITY DATA

STABILITY: STABLE
INCOMPATIBILITY: STRONG OXIDIZERS, ALKALI METALS, ALKALINE EARTH METALS (Al, Zn, Be, etc.)
CONDITIONS TO AVOID: EXTREME HEAT

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CO, CO2, HCL, HF, CARBONYL HALIDES

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID: NONE KNOWN

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VI - HEALTH AND HAZARD DATA

ROUTES OF ENTRY: INHALATION? SKIN? INGESTION?

HEALTH HAZARDS (ACUTE & CHRONIC):

CARCINOGENICITY? NTP? IARC MONOGRAPHS? OSHA REGULATED?

EFFECTS OF OVEREXPOSURE

IF IN EYES: DISCOMFORT OR BURNING

IF ON SKIN: DEFATTING OR DRYNESS ON SKIN CONTACT.

IF SWALLOWED: GI TRACT IRRITANT

IF INHALED: INHALATION MAY INDUCE DISORIENTATION, LACK OF COORDINATION, EXCITATION, HEADACHE
NAUSEA, OR SHORTNESS OF BREATH

EMERGENCY AND FIRST AID PROCEDURES

IF IN EYES: IRRIGATE 15 MINUTES GET MEDICAL ATTENTION.

IF ON SKIN: WASH WELL WITH SOAP AND WATER IF IRRITATION PERSISTS, CONSULT PHYSICIAN

IF SWALLOWED: DO NOT INDUCE VOMITTING, CALL A DOCTOR IMMEDIATELY.

IF INHALED: GET FRESH AIR.

VII - SPILL AND LEAK PROTECTION

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: ELIMINATE SPILL TO PREVENT SPREADING. DO NOT ALLOW TO ENTER SEWERS, PUBLIC WATER COURSES, OR SOIL. PUT IN SUITABLE CONTAINER. RESIDUE WILL EVAPORATE RAPIDLY.

WASTE DISPOSAL METHOD: CONSULT LOCAL, STATE AND FEDERAL REGULATIONS. WRAP EMPTY CONTAINER AND DISPOSE IN TRASH IF ALLOWED BY RELEVANT STATUTES. DO NOT PUNCTURE OR INCINERATE CONTAINER.

VIII - SPECIAL PROTECTION INFORMATION

VENTILATION: Local Exhaust: ACCEPTABLE Mechanical (General): YES Special: N/A
Other: N/A

RESPIRATORY PROTECTION: NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION

PROTECTIVE GLOVES: IF SKIN CONTACT POSSIBLE (BUTYL RUBBER)

EYE PROTECTION: AS NEEDED

OTHER PROTECTIVE EQUIPMENT: NOT USUALLY NECESSARY

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE IN COOL DRY LOCATION AWAY FROM DIRECT SUNLIGHT. KEEP OUT OF REACH OF CHILDREN
AVOID SKIN AND EYE CONTACT. USE IN WELL VENTILATED AREA.

OTHER PRECAUTIONS: FOLLOW LABEL DIRECTIONS CAREFULLY

WORK/HYGIENIC PRACTICES : NORMAL

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Prepared By:

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