

MATERIAL SAFETY DATA SHEET

CHEMCO INDUSTRIES, INC.
5731 Manchester Ave., St. Louis, MO 63110



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GENERAL INFORMATION # : 314-647-1888
EMERGENCY TELEPHONE # : (800) 854-4236

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	CAS NUMBER	ACGIH TLV	OSHA PEL	OTHER RECOMMENDED LIMITS	%optional
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1 74-98-6	1000ppm (asphyxiant)	1000ppm 1000ppm	STEL 1250ppm	75-90% 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) (40CFR 372).

III-PHYSICAL DATA

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

APPEARANCE AND ODOR: CLEAR, COLORLESS

IV-FIRE AND EXPLOSION HAZARD

FLASH POINT (°F): NONE TO BOILING POINT

FLAMMABLE LIMITS: N/A LEL: N/D UEL: 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

VI-HEALTH AND HAZARD DATA

ROUTES OF ENTRY: INHALATION: SKIN: INGESTION:

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 VOMITING, CALL A DOCTOR IMMEDIATELY.

IF INHALED: GET FRESH AIR.

VII-SPILL AND LEAK PROTECTION

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: DIKE SPILL TO PREVENT SPREADING. DO NOT ALLOW TO ENTER SEWERS, PUBLIC WATR 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 NECESSRY. USE WITH ADEQUATE VENTILATION

PROTECTIVE GLOVE: 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: NORMAL

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