

MATERIAL SAFETY DATA SHEET

Electro-Clean

FILE NO: 5160

MSDS DATE:9/20/11

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Electro-Clean

PRODUCT CODES: 5160

MANUFACTURER: QUESTVAPCO CORPORATION

ADDRESS: P.O. Box 624
Brenham, TX 77834

EMERGENCY PHONE: 1-800-255-3924

CHEM-TEL PHONE: 1-800-255-3924

OTHER CALLS: 1-800-231-0454

PRODUCT USE: Solvent applications

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>PEL</u>	<u>TLV</u>
CARBON DIOXIDE	124-38-9	5000 ppm	5000 ppm
TETRACHLOROETHYLENE	127-18-4	100 ppm	25 ppm
TRICHLOROETHYLENE	79-01-6	10 ppm	25 ppm

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Aerosol under pressure do not expose to high temperatures or store in direct sunlight. Harmful if swallowed or inhaled. Suspect cancer hazard. Risk of cancer depends on level and duration of exposure.

ROUTES OF ENTRY: inhalation, skin absorption, ingestion, skin and/or eye contact

POTENTIAL HEALTH EFFECTS

EYES: Strong Irritation likely, redness, visual disturbance, and pain. May cause eye damage.

SKIN: Irritation likely, redness and pain. May cause localized defatting, blistering with prolonged skin contact.

INGESTION: Nausea, vomiting, headaches, abdominal pain, diarrhea, dizziness, tremor, drowsiness, pulmonary edems, unconsciousness or death, estimated fatal dose is 3-5ml/kg

INHALATION: Irritation to respiratory tract, dizziness, headache, nausea, depression of central nervous system, prolonged exposure may cause unconsciousness, heart effects, liver effects, kidney effects, and death.

ACUTE HEALTH HAZARDS: See above.

CHRONIC HEALTH HAZARDS: Possible cancer causing agent and overexposure may also include damage to kidneys, liver, central nervous system, lungs, blood, or central nervous system.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Excessive exposure will aggravate pre-existing disorders of eyes, skin, respiratory, liver, kidney, cardiovascular or pulmonary illnesses, or central nervous system.

CARCINOGENICITY: OSHA: Yes ACGIH: A2-Suspected NTP: Anticipated-2 IARC: 2A-Probable Other: CP65

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush eyes with water for 15 minutes. Seek medical attention immediately.

SKIN: Immediately wash with soap and water for 15 minutes. If irritation develops seek medical attention.

INGESTION: Seek medical attention immediately, rinse mouth out with water, drink 2 glasses of water, and induce vomiting immediately as directed by medical personnel.

INHALATION: Move to fresh air. If not breathing administer artificial respiration, if breathing is difficult give oxygen.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning. This product contains ingredients that may be anticipated to be a carcinogen.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, (% BY VOLUME)

UPPER: 12.5

LOWER: 8.0

FLASH POINT: (METHOD USED: TCC)

F: None

C:

AUTOIGNITION TEMPERATURE: F: N/A

C:

NFPA HAZARD CLASSIFICATION: HEALTH: 3

FLAMMABILITY: 1

REACTIVITY: 1

OTHER:

HMIS HAZARD CLASSIFICATION: HEALTH: 3

FLAMMABILITY: 1

REACTIVITY: 1

PROTECTION: C

EXTINGUISHING MEDIA: Dry chemical, foam, or CO2.

SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing and NIOSH approved SCBA with full facepiece operated in positive pressure or pressure demand. Use water mist to keep material cool in fire situations.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents under pressure exposure to high temperatures above 120F can cause bursting.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, HCl, and Phosgene under forced combustion.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Use absorbent on spill, sweep to clean. Dispose in accordance with local, state and federal laws. Small releases may be wiped up with wiping material.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Do not use or store near heat or open flame. Exposure to temperatures above 120 F may cause bursting. Store in cool dry place. Follow all label instructions. Vapors may accumulate in low lying areas.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

VENTILATION : Normal, forced ventilation required to meet TLV requirements. Local exhaust ventilation is generally preferred.

RESPIRATORY PROTECTION: Use only in well ventilated areas. If exposure levels are exceeded then organic vapor cartridge respirator or SCBA will be needed.

EYE PROTECTION: Safety glasses are always recommended when using chemicals.

SKIN PROTECTION: Impervious gloves such as neoprene or solvex can be used.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None needed.

WORK HYGIENIC PRACTICES: Wash hands after use

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR: Clear Spray, Chlorinated solvent odor

pH AS SUPPLIED: N/A

MELTING POINT: F: Not tested

C:

VAPOR PRESSURE (mmHg): 59 @ F: 77 C: 25

VAPOR DENSITY (AIR = 1): > 1 @ F: 77 C: 25

SPECIFIC GRAVITY (H₂O = 1): 1.5 @ F: 77 C: 25

EVAPORATION RATE (Butyl Acetate =1): >3

PERCENT VOLATILE: 100 BY WT/ BY VOL @ F: 77

PHYSICAL STATE: Liquid

BOILING POINT: F: 165 C: 74

FREEZING POINT: F: Not tested C:

SOLUBILITY IN WATER: 0%

C: 25

SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE X

UNSTABLE

CONDITIONS TO AVOID (STABILITY): Temperatures above 120F, heat, flame, and sources of ignition.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers, caustics & alkalis; chemically-active metals such as barium, lithium, sodium, potassium, magnesium, titanium & beryllium, concentrated nitric acid, some plastics, rubbers, and coatings.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Oxides of carbon, Hydrogen Chloride, and Phosgene.

HAZARDOUS POLYMERIZATION: None

CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Tetrachloroethylene - 127-18-4 - LD50 (Oral-Rat) 8,850 mg/kg; LD50 (IPR-Mouse) 4,700 mg/kg.

Trichloroethylene - 79-01-6 - LD50 (Oral-Rat) 5,650 mg/kg; Tumorigen, mutagenic reproductive effects in humans.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: This material is not anticipated to significantly bioaccumulate. This material is expected to quickly evaporate from soil and water.

Trichloroethylene - 79-01-6 – Environmental Toxicity – LC50/96-hour values for fish are between 10 and 100 mg/l. Slightly toxic to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with local, State and Federal regulations. Do not dump in sewers. Use sand or other non-combustible absorbent material to clean up spill and place in container for later disposal.

RCRA HAZARD CLASS: Waste solvent likely considered U228, hazardous, under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

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SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: CONSUMER COMMODITY

HAZARD CLASS: ORM-D

PACKING GROUP:

ID NUMBER:

LABEL STATEMENT:

WATER TRANSPORTATION

PROPER SHIPPING NAME: Aerosols LTD QTY Class 2

HAZARD CLASS: 2.2

PACKING GROUP: N/A

ID NUMBER:

1950

AIR TRANSPORTATION

PROPER SHIPPING NAME: Aerosols LTD QTY Class 2

HAZARD CLASS: 2.2

PACKING GROUP: N/A

ID NUMBER:

1950

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All ingredients of this product are listed or are excluded from listing.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

Tetrachloroethylene - 127-18-4

Trichloroethylene - 79-01-6

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): None

311/312 HAZARD CATEGORIES: Acute, chronic

313 REPORTABLE INGREDIENTS: Tetrachloroethylene - 127-18-4 and Trichloroethylene - 79-01-6

STATE REGULATIONS:

Tetrachloroethylene(CAS 127-18-4) and Trichloroethylene(CAS 79-01-6) are known to the state of California to cause cancer.

Trichloroethylene, CAS 79-01-6, Right-to-Know acts for New York, Rhode Island, Pennsylvania, Florida, Minnesota, Massachusetts, Michigan, New Jersey, Tennessee; Spill Reporting for Massachusetts, New Jersey, Louisiana; Connecticut hazardous material survey; Illinois toxic substances disclosure to employee act

INTERNATIONAL REGULATIONS:

Chemical Inventory Status:

Trichloroethylene, CAS 79-01-6, - EC - yes, Japan – yes, Australia – yes, Korea – yes, Canada DSL – yes, Canada NDSL – no, Philipenes – yes.

SECTION 16: OTHER INFORMATION

PREPARED BY: Juanita Mercure

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