

SECTION I - IDENTIFICATION

PRODUCT IDENTIFIER: LECTRONIC (A)
PRODUCT CODE: 300-6150012
RECOMMENDED USE: Electronic Cleaning Agent
RESTRICTIONS ON USE: None known.
COMPANY NAME: MEGA-LAB MANUFACTURING CO. LTD.
COMPANY ADDRESS: 3-25 PLANCHET ROAD, CONCORD, ON L4K 2C5, CANADA
COMPANY PHONE: 1-905-532-9000
EMERGENCY PHONE: CANUTEC 1-613-996-6666 (24HRS)

SECTION II – HAZARDS IDENTIFICATION

CLASSIFICATION: Gases Under Pressure: Dissolved Gas
Skin Irritant: Category 2
Eye Irritant: Category 2A
Carcinogenicity: Category 1B
Reproductive Toxicity: Category 1B
Specific Target Organ Toxicity (Single Exposure): Category 3
Specific Target Organ Toxicity (Repeated Exposure): Category 1

HAZARD STATEMENT(S): DANGER: Contains gas under pressure; may explode if heated. Causes skin and serious eye irritation. May cause cancer. May damage fertility or the unborn child. May cause respiratory irritation, drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure.

This product contains the following percentage of chemicals of unknown toxicity: N/A

PRECAUTIONARY STATEMENTS: Keep away from heat, sparks, open flames, and hot surfaces. -No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Wash hands thoroughly after handling. Wear protective gloves, protective clothing and eye protection. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. If exposed or concerned: Get medical advice or attention. Do not breathe mist, vapors and spray. Use only outdoors or in a well-ventilated area. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. Do not eat, drink or smoke when using this product. Dispose of contents and container in accordance with local, state and federal regulations.

SYMBOL:



HAZARDS NOT OTHERWISE CLASSIFIED: N/A

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	PERCENT
n-Propyl bromide	106-94-5	65-75%
1,1,1,2-Tetrafluoroethane	811-97-2	10-20%
Isopropyl alcohol	67-63-0	1-5%

SECTION IV - FIRST AID MEASURES

EYES: Immediately flush with water for 15 minutes while holding eyelids open. Seek medical attention if irritation persists.

INGESTION: Rinse mouth with water. Do not induce vomiting unless directed by medical authority. Seek medical attention. Never give anything by mouth to an unconscious person.

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INHALATION: Move to fresh air. If breathing is difficult, administer oxygen. If not breathing administer artificial respiration or at any sign of loss of consciousness seek immediate medical attention.

SKIN: Immediately wash with soap and water for 15 minutes. Remove contaminated clothing and shoes immediately. Seek medical attention if irritation persists.

ACUTE HEALTH HAZARDS: Causes skin irritation including redness, burning and drying/cracking. Causes eye irritation including redness, tearing, and pain. May cause respiratory irritation and central nervous system (CNS) depression. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

CHRONIC HEALTH HAZARDS: Possible cancer causing agent and overexposure may also include damage to skin, kidneys, liver, lungs, blood, reproductive or central nervous systems. May cause dizziness, headache, nausea, mental confusion, or visual disturbances.

NOTE TO PHYSICIAN: Treatment of overexposure should be directed at the control of symptoms and the clinical condition.

SECTION V – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, and alcohol foam. Water may be effective for cooling but not extinguishing.

UNSUITABLE EXTINGUISHING MEDIA: N/A

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 temperatures above 120 °F may cause bursting.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon, hydrogen halides, bromides.

SECTION VI – ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Refer to section VIII for proper Personal Protective Equipment.

SPILL: Absorb with non-combustible material like vermiculite, sand or earth. Place waste in proper containers for waste disposal.

WASTE DISPOSAL: Dispose of contents in accordance with federal, state and local regulations. Do not dump in sewers.

RCRA STATUS: Not listed as hazardous waste under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

SECTION VII – HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid contact with skin, eyes and clothing. Do not inhale mist or vapor. Wear proper personal protective equipment when using this product. Store in a cool, dry area. Keep away from heat, open flames, or other sources of ignition. Wash hands after use. Protect from sunlight. Store in a well ventilated area. Do not expose to temperatures exceeding 50 °C/122 °F. Pressurized container: Do not pierce or burn, even after use. Do not use or store with strong oxidizers.

OTHER PRECAUTIONS: Keep out of the reach of children. Read and follow the directions on the product label. They are the best guide to using the product in the most effective manner. The label also gives you the necessary safety precautions to protect your health.

INCOMPATIBILITY: Strong alkalis, oxidizers, bases, reactive metals, and natural rubber.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
n-Propyl bromide	Not Established	0.1 ppm
1,1,1,2-Tetrafluoroethane	Not Established	Not Established
Isopropyl alcohol	400 ppm	200 ppm

ENGINEERING CONTROLS / VENTILATION: Use only in well-ventilated areas.

RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved organic vapor respiratory protection if used in confined, poorly ventilated areas.

PERSONAL PROTECTIVE EQUIPMENT: Safety glasses/goggles and chemical resistant gloves.

ADDITIONAL MEASURES: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective clothing to prevent repeated or prolonged contact with product. Do not touch eyes when using this product. Wash hands thoroughly with soap and water after use.

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SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, colorless to light yellow spray

ODOR: Solvent odor

ODOR THRESHOLD: N/D

pH: N/D

MELTING POINT/FREEZING POINT: N/D

INITIAL BOILING POINT AND BOILING RANGE: N/D

FLASH POINT: N/D

EVAPORATION RATE: >3 Fast

FLAMMABILITY(solid/gas): Not considered a flammable aerosol or an extremely flammable aerosol by OSHA (29CFR 1910.1200)

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:

LOWER FLAMMABILITY LIMIT: N/D

UPPER FLAMMABILITY LIMIT: N/D

EXPLOSIVE LIMIT LOWER (%): N/D

EXPLOSIVE LIMIT UPPER (%): N/D

VAPOR PRESSURE (mm Hg): N/D

VAPOR DENSITY (AIR=1): N/D

RELATIVE DENSITY (H₂O=1): 1.27 - 1.31 @ 77 °F (25 °C)

SOLUBILITY(IES): Non-soluble in water.

PARTITION COEFFICIENT: n-OCTANOL/WATER (K_{ow}): N/D

AUTOIGNITION TEMPERATURE: N/D

DECOMPOSITION TEMPERATURE: N/D

VISCOSITY: N/D

SECTION X – STABILITY AND REACTIVITY

REACTIVITY: Chemically active metals and acids.

CHEMICAL STABILITY: Stable.

POSSIBLE HAZARDOUS REACTIONS: None known.

CONDITIONS TO AVOID: Avoid open flame, electric arc and other high energy ignition sources. Prolonged contact with free water may result in diminished stabilizer and corrosion. Avoid incompatibles.

INCOMPATIBLE MATERIALS: Strong alkalis, oxidizers, bases, reactive metals, and natural rubber.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, hydrogen halides, bromides.

SECTION XI – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: n-Propyl bromide (106-94-5): LD₅₀ (Oral, Rat) 4260 mg/kg; LC₅₀ (Inhalation, Rat, 0.5h) 50291 ppm; LC₅₀ (Inhalation, Rat, 4h) 14374 ppm.

ROUTES OF ENTRY: Eyes, Ingestion, Inhalation, Skin

EYES: Causes irritation, redness, tearing, pain.

INGESTION: May cause gastrointestinal irritation, headaches, nausea, diarrhea.

INHALATION: May cause respiratory tract irritation, dizziness, headaches, drowsiness, unconsciousness.

SKIN: Causes localized defatting, irritation.

MEDICAL CONDITION AGGRAVATED: Pre-existing conditions of the skin, liver, kidneys, central nervous system (CNS) and respiratory system.

ACUTE HEALTH HAZARDS: Causes skin irritation including redness, burning and drying/cracking. Causes eye irritation including redness, tearing, and pain. May cause respiratory irritation and central nervous system (CNS) depression. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

CHRONIC HEALTH HAZARDS: Possible cancer causing agent and overexposure may also include damage to skin, kidneys, liver, lungs, blood, reproductive or central nervous systems. May cause dizziness, headache, nausea, mental confusion, or visual disturbances.

CARCINOGENICITY: OSHA: No ACGIH: No NTP: 2 - Anticipated IARC: 2B - Possible OTHER: CA Prop 65

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SECTION XII – ECOLOGICAL INFORMATION

ECOTOXICITY: **n-Propyl bromide** (106-94-5) LC₅₀ (*Pimephales promelas*, 96h) 67 mg/L; EC₅₀ (*Daphnia*, 24h) 208.9 mg/L. **1,1,1,2-Tetrafluoroethane** (811-97-2): LC₅₀ (Fish, 96h) 450 mg/L; EC₅₀ (*Daphnia*, 48h) 980 mg/L. **Isopropyl alcohol** (67-63-0): LC₅₀ (Fish, 96h): > 100 mg/L; LC₅₀ (*Pimephales promelas*, 96h) 9640 mg/L; EC₅₀ (*Daphnia*, 24h) 5102 mg/L.

PERSISTENCE AND DEGRADABILITY: Component or components of this product are not biodegradable.

BIOACCUMULATIVE POTENTIAL: This product is not expected to bioaccumulate.

MOBILITY IN SOIL: This product is mobile in soil.

OTHER ADVERSE EFFECTS: None known.

SECTION XIII – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of contents in accordance with federal, state and local regulations. Do not dump in sewers.

RCRA STATUS: Not listed as hazardous waste under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

SECTION XIV - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Aerosols, Ltd. Qty.

HAZARD CLASS/DIVISION: 2.2

UN/NA NUMBER: UN 1950

PACKING GROUP: N/A

AIR SHIPMENT

PROPER SHIPPING NAME: Aerosols

HAZARD CLASS/DIVISION: 2.2

UN/NA NUMBER: UN 1950

PACKING GROUP: N/A

SHIPPING BY WATER:

VESSEL (IMO/IMDG)

PROPER SHIPPING NAME: Aerosols

HAZARD CLASS/DIVISION: 2.2

UN/NA NUMBER: UN 1950

PACKING GROUP: N/A

ENVIRONMENTAL HAZARDS WATER: N/A

SECTION XV - REGULATORY INFORMATION

TSCA STATUS: All chemicals are listed or exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): **1,2-Butylene oxide** (106-88-7) < 0.6% by weight

SARA 311/312 HAZARD CATEGORIES: Gas under pressure. Skin corrosion or irritation. Serious eye damage or eye irritation. Carcinogenicity. Reproductive toxicity. Specific target organ toxicity (single or repeated exposure).

SARA 313 REPORTABLE INGREDIENTS: **n-Propyl bromide** (106-94-5). **sec-Butyl alcohol** (78-92-2). **1,2-Butylene oxide** (106-88-7). **Nitromethane** (75-52-5).

STATE REGULATIONS: California Proposition 65: WARNING: This product can expose you to chemicals including 1-Bromopropane, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. **Isopropyl alcohol** (67-63-0): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: CT, FL, IL, MA, MN, NJ, PA, RI, TN. **n-Propyl bromide** (106-94-5): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: MA, NJ, PA. **1,2-Butylene oxide** (106-88-7): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: CA, MA, MN, NJ, PA, RI. **Nitromethane** (75-52-5): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: FL, MN, MA, NJ, PA, RI. **sec-Butyl alcohol** (78-92-2): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: MA, NJ, PA, RI.

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INTERNATIONAL REGULATIONS: Listed or exempt from listing/notification on the following chemical inventories: Domestic Substances List (DSL, Canada).

VOLATILE ORGANIC COMPOUNDS (VOC): 75%

NFPA HEALTH: 2
NFPA FLAMMABILITY: 0
NFPA REACTIVITY: 0
NFPA OTHER: None

HMIS HEALTH: 2
HMIS FLAMMABILITY: 0
HMIS REACTIVITY: 0
HMIS PROTECTION: B

SECTION XVI - OTHER INFORMATION
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PREPARATION BY: Mega-Lab Manufacturing Co. Ltd.

DATE PREPARED: 12/27/2013

REVISION DATE: 11/19/2021

N/A = Not Applicable; N/D = Not Determined

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