

Material Safety Data Sheet
Unplug

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REVISION DATE: 06/04/2013
CHEM-TEL: 800-225-3924
PRODUCT NUMBER: 5140-5150

SECTION I - IDENTIFICATION

PRODUCT NAME: Unplug
PRODUCT USE: Contact & Circuit Board Cleaner

PRODUCT CODE: 5140-5150

SECTION II – COMPOSITION/HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	OSHA PEL	ACGIH TLV
Heptane	142-82-5	400 ppm	400 ppm
Isopropyl Alcohol	67-63-0	400 ppm	200 ppm
Carbon Dioxide	124-38-9	5000 ppm	5000 ppm

SECTION III – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Aerosol under pressure do not expose to temperatures above 120°F or store in direct sunlight, may develop pressure and cause can to burst.

ROUTES OF ENTRY: Eyes, Ingestion, Inhalation, Skin

EYES: Causes irritation, redness, tearing, pain, blurred vision.

INGESTION: May be harmful if swallowed. Not an expected route of exposure. Causes gastrointestinal irritation, nausea, diarrhea, vomiting.

INHALATION: Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful.

SKIN: Brief contact is not irritating. May cause irritation, dryness, redness, localized defatting with prolonged or repeated contact. Removes natural oils and fats from skin.

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

CHRONIC HEALTH HAZARDS: Repeated or prolonged exposure may be toxic to kidneys, liver, skin, central nervous system (CNS).

CARCINOGENICITY: OSHA: No ACGIH: No NTP: No IARC: No OTHER: No

SECTION IV - FIRST AID MEASURES

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

INGESTION: Not a likely exposure route. Rinse mouth out with water. If a large quantity of liquid is swallowed, do not induce vomiting, call a physician or poison control center.

INHALATION: Move to fresh air. If breathing is difficult, administer oxygen. If not breathing administer artificial respiration. Seek medical attention if irritation persists.

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

NOTE TO PHYSICIAN:

SECTION V – FIRE-FIGHTING MEASURES

FLASH POINT: <20°F

FLAMMABLE LIMITS IN AIR, (% BY VOLUME) UPPER: 7.5 **LOWER:** 1.2

EXTINGUISHING MEDIA: Dry chemical, foam, or Carbon Dioxide (CO₂).

SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. Use water spray only to cool exposed containers. Shut off all sources of ignition.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents under pressure. Exposure to temperatures above 120°F may cause bursting. May develop a flammable atmosphere in confined areas.

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SECTION VI – ACCIDENTAL RELEASE MEASURES

SPILL: Clean up with non-combustible material like vermiculite, sand or earth. If many cans are opened remove ignition sources. Prevent spill from entering sewers, storm drains, and natural waterways.

WASTE DISPOSAL: Dispose of in accordance with federal, state, and local regulations. Do not dump in sewers. Wrap container and place in trash collection, do not puncture, incinerate, or reuse container.

RCRA STATUS: Waste likely considered D001, under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

SECTION VII – HANDLING AND STORAGE

HANDLING AND STORAGE: Store in a cool, dry area. Do not use or store near heat or open flames. Exposure to temperatures above 120 F may cause bursting. Do not puncture or incinerate container. Do not reuse empty container. Wrap container and place in trash collection. Vapor may collect in low lying areas.

OTHER PRECAUTIONS: Do not use near sparks, heat or open flame. Use only in well-ventilated area. Contents under pressure. Keep out of reach of children. Do not puncture or incinerate container.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS / VENTILATION: Use only in well ventilated areas. Forced ventilation required. Local exhaust preferred to general.

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

PROTECTIVE CLOTHING: Safety glasses are always recommended when using chemicals. Chemical resistant gloves recommended if repeated contact with skin occurs.

ADDITIONAL MEASURES: Wash hands thoroughly after use.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear Liquid

VAPOR PRESSURE (mm Hg): 124

EVAPORATION RATE: >2.5

SOLUBILITY IN WATER: 10 %

VOLATILE ORGANIC COMPOUNDS (VOC): 97%

ODOR: Alcohol solvent

VAPOR DENSITY (AIR=1): > 2

SPECIFIC GRAVITY (H2O=1): 0.71

VOLATILITY INCLUDING WATER (%): 100 %

SECTION X – STABILITY AND REACTIVITY DATA

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: Temperatures greater than 120°F, excessive heat, hot surfaces, open flames, sources of ignition.

INCOMPATIBILITY: Oxidizers, heat, sparks, open flame, and energized equipment.

HAZARDOUS DECOMPOSITION OR BY-PRODUCT: Oxides of carbon

SECTION XI – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: **Heptane** (142-82-5) LD₅₀ (Oral, Rat) 15,000 mg/kg; LC₅₀ (Inhalation, Rat, 4hr) 103 g/m³; LD₅₀ (Dermal, Rabbit) 2,000 mg/kg **Isopropyl Alcohol** (67-63-0) LD₅₀ (Oral,Rat) 5045 mg/kg; LD₅₀ (Oral, Rabbit) 5045 mg/kg; LD₅₀ (Dermal, Rabbit) 12800 mg/kg; LC₅₀ (Inhalation, Rat, 8hr) 16000 ppm

SECTION XII – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: **Isopropyl Alcohol** (67-63-0) LC₅₀: 100000 mg/l 96 hours [Fathead Minnow]. 64000 mg/l 96 hours [Fathead Minnow]. IPA has a low potential to affect aquatic organisms, secondary waste treatment microbial metabolism, and germination of some plants.

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SECTION XIII – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of in accordance with federal, state, and local regulations. Do not dump in sewers. Wrap container and place in trash collection, do not puncture, incinerate, or reuse container.

RCRA STATUS: Waste likely considered D001, under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

SECTION XIV - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Aerosols, Flammable, N.O.S., Limited Quantity

UN/NA NUMBER: UN 1950

PACKAGING GROUP:

AIR SHIPMENT

PROPER SHIPPING NAME: Aerosols, Ltd. Qty. Class 2

HAZARD CLASS/DIVISION: 2.1

UN/NA NUMBER: UN 1950

SHIPPING BY WATER:

VESSEL (IMO/IMDG)

PROPER SHIPPING NAME: Aerosols, Ltd. Qty. Class 2

HAZARD CLASS/DIVISION: 2.1

UN/NA NUMBER: UN 1950

NOTE:

SECTION XV - REGULATORY INFORMATION

TSCA STATUS: All Chemicals are listed or exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): None

SARA 311/312 HAZARD CATEGORIES: Acute Health, Fire

SARA 313 REPORTABLE INGREDIENTS: Isopropyl Alcohol - 67-63-0

STATE REGULATIONS: **Heptane** (142-82-5) California Director's List of Hazardous Substances, Connecticut hazardous material survey, Illinois toxic substances disclosure to employee act, New Jersey RTK, Massachusetts RTK, Minnesota RTK, Pennsylvania RTK, Rhode Island RTK

Isopropyl Alcohol (67-63-0) Right-to-Know acts for Rhode Island, Pennsylvania, Florida, Minnesota, Massachusetts, New Jersey, Tennessee Connecticut hazardous material survey. Isopropyl alcohol Illinois toxic substances disclosure to employee act

NFPA HEALTH: 1

NFPA FLAMMABILITY: 4

NFPA REACTIVITY: 1

NFPA OTHER:

HMIS HEALTH: 1

HMIS FLAMMABILITY: 4

HMIS REACTIVITY: 1

HMIS PROTECTION: B

SECTION XVI - ADDITIONAL INFORMATION

PREPARATION BY: Stephanie Coleman

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