

MATERIAL SAFETY DATA SHEET
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EMERGENCY PHONE NO.: (FOR SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT): 1-800-535-5053

*****UNIVERSAL CONTACT CLEANER 11118*****

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: Universal Contact Cleaner (aerosol)
 PRODUCT DESCRIPTION: A quick drying, residue-free, ozone-safe cleaner for relays, controls, switches, and other electrical equipment. Will not harm plastics or insulation.
Extremely flammable – not for use on energized equipment
 RESTRICTIONS: Non-restricted

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT NAME(S)	CAS#	OCCUPATIONAL EXPOSURE LIMITS	
		TLV OR PEL	ORAL LD-50
2-Methylpentane	107-83-5	500 ppm	N.E.
3-Methylpentane	96-14-0	500 ppm	N.E.
2,3-Dimethylbutane	79-29-8	500 ppm	N.E.
n-Hexane	110-54-3	50 ppm	> 5gm/kg (rat)
2,2-Dimethylbutane	75-83-2	500 ppm	N.E.
Ethanol	64-17-5	1000 ppm	7060 mg/kg (rat)
Carbon Dioxide	124-38-9	5000 ppm	N.E.

Carcinogenic: **OSHA** = no **NTP** = no **IARC** = no

SECTION III - PHYSICAL DATA

APPEARANCE: Colorless, transparent liquid
 ODOR: Mild hydrocarbon odor
 BOILING POINT: -20 degrees F. (-28.89 degrees C.)
 VAPOR DENSITY (Air = 1): 1.9
 VAPOR PRESSURE: 4380 mmHg
 SOLUBILITY IN WATER: Approximately 9% by weight
 SPECIFIC GRAVITY: 0.69
 EVAPORATION RATE (n-BuAc = 1): >1

SECTION IV - FIRE AND EXPLOSION DATA

HMIS RATING: Health – 1, Fire – 3, Reactivity - 0
 FLASH POINT: -20 degrees F. (-28.89 degrees C.)
 FLAMMABLE LIMITS: LEL:1.0
 UEL:19.0
 EXTINGUISHING MEDIA: Dry chemical, foam, CO2
 UNUSUAL FIRE AND EXPLOSION HAZARDS: Extremely flammable vapors are heavier than air, may travel to ignition sources distant from point of material handling where they may be ignited by pilot lights, fires, sparks, heaters, electric motors, static discharges or other ignition sources. Heated containers may become over-pressurized and fail explosively.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear self-contained breathing apparatus and protective clothing. Cool fire-exposed aerosols with water fog.

SECTION V - HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES:
Eye Contact: Flush eyes with water for at least 15 minutes. Consult a physician. Skin Contact: Wash affected area with soap and water. If irritation develops or persists, consult a physician. Inhalation: Remove victim to fresh air, administer oxygen if necessary. If victim has stopped breathing begin CPR. Get medical attention. Ingestion: If material is swallowed, consult a physician immediately. DO NOT induce vomiting unless physician directed. If spontaneous vomiting occurs, keep victim's head below hips to prevent aspiration of vomitus into lungs.
 MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Pre-existing skin conditions
 PRIMARY ROUTES OF ENTRY: Inhalation, skin and eye contact.
 HEALTH HAZARDS (acute and chronic) / EFFECTS OF OVEREXPOSURE: Excessive inhalation of high vapor concentrations may cause dizziness, weakness, fatigue, nausea, headache, unconsciousness, or, in extreme overexposures, asphyxiation. Aspiration of this material into lungs can cause chemical pneumonitis, which may be fatal.

SECTION VI - REACTIVITY DATA

STABILITY: Stable under normal use and storage conditions.
 HAZARDOUS POLYMERIZATION: Will not occur.
 HAZARDOUS DECOMPOSITION PRODUCTS (under fire conditions): Oxides of carbon, irritating aldehydes and ketones
 INCOMPATIBILITY: Avoid contact with strong oxidizers
 CONDITIONS TO AVOID: Contents are extremely flammable. Avoid heat, flame, sparks, other potential ignition sources.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Immediately extinguish ignition sources, ventilate area. Use non-sparking utensils to take up spilled material on an inert, absorbant material and place into a DOT approved closed-top container for disposal. Prevent spilled material from entering sewers or drains.
 WASTE DISPOSAL: Dispose of waste or unwanted product in accordance with existing Federal, State and Local environmental regulations. Waste may be reclaimed or incinerated by permitted facilities.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Not normally required; mechanical (general) ventilation is generally adequate. Wear a NIOSH approved organic vapor respirator in nuisance-level vapor concentrations, a positive pressure, air-supplied respirator in high vapor concentrations or oxygen-deficient atmospheres.
 PROTECTIVE GLOVES: PVA or neoprene gloves
 EYE PROTECTION: Safety glasses, splash goggles, face shield
 OTHER PROTECTIVE EQUIPMENT: Eye wash station.

SECTION IX - SPECIAL PRECAUTIONS AND STORAGE DATA

PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid eye and skin contact with liquid. Avoid excessive inhalation of vapors. Use in a well-ventilated environment. Intentional inhalation of contents is harmful and may be fatal.
 PRECAUTIONS TO BE TAKEN IN STORING: Store

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containers below 120°F (48°C), away from heat or ignition sources, open flame, out of direct sunlight.

SECTION X – SHIPPING DATA

U.N/N.A NUMBER: UN1950

DOT/IATA SHIPPING NAME: Aerosols, flammable, (each not exceeding 1L capacity)

DOT/IATA HAZARD CLASS: 2.1

DOT/IATA REQUIRED LABELS: 2, Flammable gas (air shipment only)

DOT EXCEPTION: See Code 49 section 172.101, column (8A). Section 173.306(h) permits “limited quantity” materials (inner packagings which do not exceed 1L capacity / 61 cubic inches and for which internal pressures do not exceed 180 psig at 130 degrees F.) meeting section 171.8 definition of “consumer commodity” to be renamed “Consumer commodity, reclassified as ORM-D when shipped via ground mode, domestically.

IMDG SHIPPING NAME: Aerosols, flammable, (each not exceeding 1L capacity)

FREIGHT CLASS: NMFC 48580, Sub 3

LTL: 55

TL: 35

MW:36

T.S.C.A STATUS: All components listed

PREPARED BY: Roger Hanson

DATE PREPARED: 03-18-00 SUPERSEDES: 01-26-00

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N.E. = NOT ESTABLISHED

N.A. = NOT APPLICABLE