



MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Name Nu-Calgon Wholesaler, Inc.	Phone Number (314) 469-7000 / (800) 554-5499	CHEMTREC (800) 424-9300		
Street Address 2008 Altom Court	City St. Louis	State MO	Postal Code 63146-4151	Last Update 03/15/07
Product Name Aerosol Electrical Contact Cleaner-LV	Product Number 4082-04	Product Use Electronics Cleaner		EPA Registration # N/A

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	% By Wt.	CAS Number	TLV	PEL
1,1,1,2-Tetrafluoroethane	50-60	811-97-2	N/E	N/E
n-Propyl bromide	20-30	106-94-5	N/E	N/E
3,3-Dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca)	10-20	422-56-0	N/E	N/E
1,3-Dichloro-1,1,2,2,3-pentafluoropropane (HCFC-225cb)	< 5.0	507-55-1	N/E	N/E

SECTION 3 – HAZARD IDENTIFICATION

Emergency Overview: Warning: Irritating to eyes and skin. Vapors may be harmful. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 122°F (50°C). KEEP OUT OF REACH OF CHILDREN

Potential Health Effects

Eyes: Irritating to eyes. Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

Skin: Mild skin irritation, Prolonged skin contact may defat the skin and produce dermatitis or frostbite

Ingestion: Aspiration may cause chemical pneumonitis if aspirated into lungs.

Inhalation: Excessive inhalation of vapors can be harmful and may cause headache, dizziness, asphyxia, anesthetic effects and possible unconsciousness. May cause cardiac arrhythmia. May cause asphyxiation in high concentrations.

Chronic Exposure: Prolonged exposure may cause chronic effects such as central nervous system effects.

Carcinogenicity: California - Proposition 65 - Reproductive Toxicity - Female: n-Propyl bromide - female reproductive toxicity, initial date 12/7/04

Medical Conditions Aggravated by Exposure: May aggravate existing eye, skin, or upper respiratory conditions.

SECTION 4 – FIRST AID MEASURES

Eyes: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. . If eye irritation persists, consult a specialist.

Skin: Wash off with soap and water. If skin irritation persists, call a physician.

Ingestion: DO NOT INDUCE VOMITING. Clean mouth with water and afterwards drink plenty of water. Call a physician or Poison Control Centre immediately.

Inhalation: Move to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth. Obtain medical attention.

SECTION 5 – FIREFIGHTING MEASURES

Flash Point: N/A°F

Autoignition Temp: N/A°C/N/A°F

Hazardous Products of Combustion: Carbon oxides , hydrofluoric acid, Hydrochloric acid, Chlorine (trace amounts), Bromine

Flammable Limits in Air: N/A

Extinguishing Media: Foamy spray. Dry chemical. Carbon dioxide (CO2).

Fire and Explosion Hazards: N/A

Special Firefighting Procedures: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Water mist may be used to cool closed containers.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill or Leak: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Dispose of in accordance with local regulations.

SECTION 7 – HANDLING AND STORAGE

Handling Procedures and Equipment: Wear personal protective equipment. Do not puncture or incinerate container.

Storage Requirements: KEEP OUT OF REACH OF CHILDREN. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 122°F (50°C).

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

Eye Protection: Safety glasses with side-shields

Protective Clothing: Neoprene gloves

Exposure Guidelines: See Section 2

Specific Engineering Controls (such as ventilation, enclosed process): Ensure adequate ventilation, especially in confined areas

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Aerosol	Freezing Point: N/A°C/N/A°F	% Volatile by Weight: 59.5%
Color: Clear	Vapor Density [air =1]: (Air=1); greater than 1.	Evaporation Rate: >1.0 (water = 1)
Odor: Solvent	Vapor Pressure: PSIG @ 70°F (Aerosols): 50-60.	Specific Gravity: 1.33 (concentrate only)
Boiling Point: N/A°C/N/A°F	Solubility in Water: negligible.	pH (concentrate): N/A

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions

Hazardous Polymerization: Hazardous polymerization does not occur

Incompatibilities: Strong oxidizing agents, strong bases, alkaline earth metals or powdered metals

Reactive Conditions to avoid: Extremes of temperature and direct sunlight.

Decomposition Products: Carbon oxides, hydrofluoric acid, Hydrochloric acid, Chlorine (trace amounts), Bromine

SECTION 11 – TOXICOLOGICAL INFORMATION

Hazardous Ingredients	CAS #	EINECS #	LD 50 of Ingredient (Specify Species)	LC50 of Ingredient (Specify Species)
1,1,1,2-Tetrafluoroethane	811-97-2	N/D	N/A	Inhalation LC50 Rat: 1500 g/m ³ /4H
n-Propyl bromide	106-94-5	N/D	N/A	Inhalation LC50 Rat: 253 g/m ³ /30M
3,3-Dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca)	422-56-0	N/D	N/A	N/A
1,3-Dichloro-1,1,2,2,3-pentafluoropropane (HCFC-225cb)	507-55-1	N/D	N/A	N/A

SECTION 12 – ECOLOGICAL INFORMATION

Hazardous Ingredients	Aquatic Toxicity Data
1,1,1,2-Tetrafluoroethane	N/A
n-Propyl bromide	96 Hr LC50 fathead minnow: 67.3 mg/L (flow-through)
3,3-Dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca)	N/A
1,3-Dichloro-1,1,2,2,3-pentafluoropropane (HCFC-225cb)	N/A

SECTION 13 – DISPOSAL CONSIDERATIONS**Waste Disposal:** Should not be released into the environment. Dispose of in accordance with local regulations.**SECTION 14 – TRANSPORTATION INFORMATION****Special Shipping Information:** No Data.

<u>Purview</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT (Land)	Consumer Commodity ORM-D	N/A	N/A	N/A
IMO (Water)	No Data.	No Data.	No Data.	No Data.
ICAO (Air)	Aerosols, Non-Flammable	UN1950	N/A	2.2

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification: (Workplace Hazardous Material Information System)	D2B
SARA Title III: (Superfund Amendments & Reauthorization Act)	No
OSHA: (Occupational Safety & Health Administration)	See section 2
TSCA: (Toxic Substance Control Act)	Present
VOC: (volatile Organic Compounds)	59.5%
CPR: (Canadian Controlled Products Regulations)	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations.
EINECS: (European Inventory of Existing Commercial Chemical Substances)	N/D
DSL / NDSL: (Canadian Domestic Substance List)(Non-Domestic Substance List)	Present
CERCLA: (Comprehensive Response Compensation & Liability Act)	N/A
IDL: (Canadian Ingredient Disclosure List)	N/D
NFPA (HMIS) Rating: (Hazardous Materials Identification System)	Health=2; Fire=0; Reactivity=0 Personal protective equipment = B

SECTION 16 – OTHER INFORMATION

No Data.

The information contained herein is based on the data available to us and is believed to be correct. However, Nu-Calgon Wholesaler Inc. makes no warranty, expressed, or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. Nu-Calgon Wholesaler Inc. assumes no liability for injury from the use of the product described herein.