



# MATERIAL SAFETY DATA SHEET

## SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Company Name</b> Nu-Calgon Wholesaler, Inc.	<b>Phone Number</b> (314) 469-7000 / (800) 554-5499	<b>CHEMTREC</b> (800) 424-9300		
<b>Street Address</b> 2008 Altom Court	<b>City</b> St. Louis	<b>State</b> MO	<b>Postal Code</b> 63146-4151	<b>Last Update</b> 2/2/07
<b>Product Name</b> Evap Foam No Rinse-Aerosol	<b>Product Number</b> 4171	<b>Product Use</b> Aerosol Coil Cleaner		<b>EPA Registration #</b> N/A

## SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

<b>Hazardous Ingredients</b>	<b>% By Wt.</b>	<b>CAS Number</b>	<b>TLV</b>	<b>PEL</b>
AQUA AMMONIA	0.03%	1336-21-6	No Data.	25 ppm
DIETHYLENE GLYCOL MONOETHYL ETHER	2.84%	111-90-0	25 ppm TWA	None Established
ETHYLENE GLYCOL N-BUTYL ETHER, EB	2.00%	111-76-2	ACGIH Exposure Limits: 20 PPM	25 PPM
TETRASODIUM EDTA	1.64%	64-02-8	No Data.	None Established
CAUSTIC SODA 50%	0.08%	1310-73-2	No Data.	2 MG/M3
SODIUM METASILICATE	0.14%	6834-92-0	No Data.	15MG/M3
SODIUM NITRITE	0.19%	7632-00-0	No Data.	None Established
BUTANE	2.95%	106-97-8	No Data.	800 ppm TWA
PROPANE	2.05%	74-98-6	No Data.	1000 ppm 2100 ppm IDLH

## SECTION 3 – HAZARD IDENTIFICATION

**Emergency Overview:** PROLONGED EXPOSURE ABOVE THE OSHA PERMISSIBLE EXPOSURE LIMITS (PEL) MAY RESULT IN KIDNEY AND LIVER DAMAGE

### **Potential Health Effects**

**Eyes:** CAN CAUSE EYE IRRITATION.

**Skin:** SLIGHT SKIN IRRITATION, CAN CAUSE DERMATITIS.

**Ingestion:** MAY CAUSE CHEMICAL PNEUMONIA IF ASPIRATED INTO LUNG.

**Inhalation:** SHORTNESS OF BREATH, DIZZINESS AND LIGHTHEADEDNESS.

**Chronic Exposure:** No Data.

**Carcinogenicity:** NOT DETERMINED

**Medical Conditions Aggravated by Exposure:** NONE RECOGNIZED

## SECTION 4 – FIRST AID MEASURES

**Eyes:** FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 20 MINUTES. LIFTING UPPER AND LOWER LIDS OCCASIONALLY, GET MEDICAL ATTENTION

**Skin:** THOROUGHLY WASH EXPOSED SKIN WITH SOAP AND WATER.

**Ingestion:** DO NOT INDUCE VOMITTING. IMMEDIATELY DRINK TWO GLASSES OF WATER. NEVER GIVE ANYTHING TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION,

**Inhalation:** REMOVE INDIVIDUAL TO FRESH AIR. GIVE OXYGEN IF BREATHING IS LABORED. IF BREATHING HAS STOPPED GIVE ARTIFICIAL RESPIRATION. KEEP PERSON WARM, QUIET AND SEEK MEDICAL ATTENTION.

## SECTION 5 – FIREFIGHTING MEASURES

**Flash Point:** N/D°C / N/D°F

**Autoignition Temp:** N/D°C / N/D°F

**Hazardous Products of Combustion:** BURNING CAN PRODUCE CARBON MONOXIDE AND/OR CARBON DIOXIDE AND TRACES OF PHOSGENE GAS

**Flammable Limits in Air:** MATERIAL IS HIGHLY VOLATILE AND READILY GIVES OFF VAPORS WHICH MAY TRAVEL ALONG THE GROUND AND IGNITED BY PILOT LIGHTS, FLAMES, SPARKS, HEATERS, SMOKING, ELECTRIC MOTORS, STATIC DISCHARGES OR OTHER IGNITION SOURCE DISTANT FROM THE HANDLING POINT.

**Extinguishing Media:** WATER FOG OR FINE SPRAY. CARBON DIOXIDE, DRY CHEMICAL, FOAM, ALCOHOL RESISTANT FOAMS (ATC TYPE) ARE PREFERRED IF AVAILABLE. GENERAL PURPOSE SYNTHETIC FOAMS (INCLUDING AFFF) OR PROTEIN FOAMS MAY FUNCTION, BUT MUCH LESS EFFECTIVELY.

**Fire and Explosion Hazards:** No Data.

**Special Firefighting Procedures:** KEEP PEOPLE AWAY. ISOLATE FIRE AREA AND DENY UNNECESSARY ENTRY. BURNING LIQUIDS MAY BE MOVED BY FLUSHING WITH WATER TO PROTECT PERSONNEL AND MINIMIZE PROPERTY DAMAGE. BURNING LIQUIDS MAY BE EXTINGUISHED BY DILUTION WITH WATER. DO NOT USE DIRECT WATER STREAM, MAY SPREAD FIRE. PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND PROTECTIVE FIRE FIGHTING CLOTHING. IF PROTECTIVE EQUIPMENT IS NOT AVAILABLE, FIGHT FIRE FROM A PROTECTED LOCATION OR SAFE DISTANCE.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Spill or Leak:** EMERGENCY ACTION: ISOLATE SPILL OR LEAK AREA IMMEDIATELY. KEEP UNAUTHORIZED PERSONNEL AWAY. VENTILATE AREA AND ELIMINATE ALL IGNITION SOURCES. SMALL SPILLS: CLEAN UP WITH INERT MATERIALS AND DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. LARGE SPILLS: DIKE AHEAD OF LIQUID SPILL FOR LATER DISPOSAL. DO NOT DISCHARGE EFFLUENT OF THIS PRODUCT INTO LAKES, STREAMS, PONDS OR OTHER WATERS UNLESS IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.

## SECTION 7 – HANDLING AND STORAGE

**Handling Procedures and Equipment:** KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, SPARKS AND OPEN FLAMES. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT.

**Storage Requirements:** DO NOT STORE IN DIRECT SUNLIGHT, NEAR OPEN FLAMES/SPARKS OR AT TEMPERATURES EXCEEDING 120°F.

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory Protection:** MAY BE REQUIRED IF AIRBORNE CONCENTRATIONS CANNOT BE REDUCED TO BELOW THE ESTABLISHED EXPOSURE LIMITS.

**Eye Protection:** CHEMICAL SPLASH GOGGLES OR FACE SHIELD IS RECOMMENDED.

**Protective Clothing:** PERSONAL PROTECTIVE EQUIPMENT IS RECOMMENDED FOR PROLONGED OR REPEATED CONTACT. APPROPRIATE CHEMICAL RESISTANT GLOVES SHOULD ALWAYS BE WORN. CLOTHING AND EQUIPMENT AS LISTED IN 29CFR1910.132&133. ALL CONTAMINATED PERSONAL PROTECTIVE EQUIPMENT SHOULD BE COLLECTED AND DISPOSED OF ACCORDING TO ALL LOCAL, STATE AND FEDERAL REGULATIONS.

**Exposure Guidelines:** GENERAL VENTILATION MAY BE ADEQUATE FOR MAINTAINING AIRBORNE CONCENTRATIONS BELOW ESTABLISHED EXPOSURE LIMITS. IF GENERAL VENTILATION IS INADEQUATE, SUPPLEMENTAL LOCAL EXHAUST MAY BE REQUIRED. WHERE EXPLOSIVE MIXTURE MAY BE PRESENT, SYSTEMS SAFE FOR SUCH LOCATIONS SHOULD BE USED.

**Specific Engineering Controls (such as ventilation, enclosed process):** PROVIDE GENERAL AND/OR LOCAL EXHAUST VENTILATION TO CONTROL AIRBORNE LEVELS BELOW THE EXPOSURE GUIDELINES.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical Form:</b> AEROSOL SPRAY	<b>Freezing Point:</b> No Data.°C/No Data.°F	<b>% Volatile by Weight:</b> NOT DETERMINED%
<b>Color:</b> No Data.	<b>Vapor Density [air =1]:</b> NOT DETERMINED	<b>Evaporation Rate:</b> IS SLOWER THAN ETHER
<b>Odor:</b> AMMONIA CLEANER	<b>Vapor Pressure:</b> No Data.	<b>Specific Gravity:</b> NOT DETERMINED
<b>Boiling Point:</b> 198 to 205°C/388 to 401°F	<b>Solubility in Water:</b> No Data.	<b>pH (concentrate):</b> No Data.

## SECTION 10 – STABILITY AND REACTIVITY

**Chemical Stability:** STABLE UNDER NORMAL CONDITIONS. KEEP AWAY FROM HEAT, SPARKS OR OPEN FLAMES.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:** STRONG OXIDIZING AGENTS, STRONG ALKALIES AND STRONG MINERAL ACIDS, HALOGENS, NON-FERROUS METALS, BORON, CHLORITES, CHROMIUM TRIOXIDE, DIMETHYL SULFATE, ETHYLENE OXIDE, GOLD, MERCURY, NITROGEN TETROXIDE AND OLEUM, ZINC, MAGNESIUM, ALUMINUM, AND GALVANIZED METALS.

**Reactive Conditions to avoid:** BURNING CAN PRODUCE CARBON MONOXIDE AND/OR CARBON DIOXIDE AND TRACES OF PHOSGENE GAS. HEATING FORMS GASEOUS AMMONIA. NORMAL COMBUSTION PRODUCTS ARE NITROGEN AND WATER BUT OXIDES OF NITROGEN MAY BE FORMED UNDER CERTAIN CONDITIONS.

**Decomposition Products:** INCLUDE AND ARE NOT LIMITED TO FORMALDEHYDE.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

<u>Hazardous Ingredients</u>	<u>CAS #</u>	<u>EINECS #</u>	<u>LD 50 of Ingredient</u> (Specify Species)	<u>LC50 of Ingredient</u> (Specify Species)
NOT DETERMINED				

**SECTION 12 – ECOLOGICAL INFORMATION**

<u>Hazardous Ingredients</u>	<u>Aquatic Toxicity Data</u>
NOT DETERMINED	

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**Waste Disposal:** EMPTY AEROSOL CONTAINERS MAY BE DISPOSED OF THROUGH NORMAL CHANNELS. FULL OR PARTIALLY FULL CONTAINERS ARE CONSIDERED HAZARDOUS WASTE AND MUST BE DISPOSED OF ACCORDINGLY.

**SECTION 14 – TRANSPORTATION INFORMATION**

**Special Shipping Information:** FOR DOT REGULATORY INFORMATION, IF REQUIRED, CONSULT TRANSPORTATION REGULATIONS OR PRODUCT SHIPPING PAPERS.

<u>Purview</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
<b>DOT</b> (Land)	CONSUMER COMMODITY	No Data.	No Data.	ORM-D
<b>IMO</b> (Water)	No Data.			
<b>ICAO</b> (Air)	No Data.			

**SECTION 15 – REGULATORY INFORMATION**

<b>WHMIS Classification:</b> (Workplace Hazardous Material Information System)	A (Compressed Gas), B5 (Flammable), and D2b (T over the period)
<b>SARA Title III:</b> (Superfund Amendments & Reauthorization Act)	No Data.
<b>OSHA:</b> (Occupational Safety & Health Administration)	No Data.
<b>TSCA:</b> (Toxic Substance Control Act)	ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY
<b>VOC:</b> (volatile Organic Compounds)	No Data.
<b>CPR:</b> (Canadian Controlled Products Regulations)	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations.
<b>EINECS:</b> (European Inventory of Existing Commercial Chemical Substances)	No Data.
<b>DSL / NDSL:</b> (Canadian Domestic Substance List)(Non-Domestic Substance List)	No Data.
<b>CERCLA:</b> (Comprehensive Response Compensation & Liability Act)	No Data.
<b>IDL:</b> (Canadian Ingredient Disclosure List)	No Data.
<b>NFPA (HMIS) Rating:</b> (Hazardous Materials Identification System)	Health Hazard.....: 2 Fire Hazard.....: 1 Reactivity.....: 0 Personal Protection...: X

**SECTION 16 – OTHER INFORMATION**

INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING VAPORS AND INHALING CONTENTS CAN BE HARMFUL OR FATAL

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.