



# 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> 11/22/06
<b>Product Name</b> Cal-Spray Evap-Fresh Coil Cleaner & Disinfectant	<b>Product Number</b> 4166-75	<b>Product Use</b> Foaming Evaporator Coil Cleaner & Disinfectant		<b>EPA Registration #</b> 1839-84-65516

## SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Ingredients</u>	<u>% By Wt.</u>	<u>CAS Number</u>	<u>TLV</u>	<u>PEL</u>
Isobutane	5	75-28-5	No Data.	No Data.
Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	0.1	85409-23-0	No Data.	No Data.
Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	0.1	68391-01-5	No Data.	No Data.

## SECTION 3 – HAZARD IDENTIFICATION

<b>Emergency Overview:</b> Clear liquid, Danger! Flammable, Irritant. May cause moderate irritation to the eyes. May cause moderate irritation to the skin. May be harmful if swallowed.
<b>Potential Health Effects</b>
<b>Eyes:</b> This product may cause moderate irritation to the eyes.
<b>Skin:</b> This product may cause moderate irritation to the skin.
<b>Ingestion:</b> This product may be harmful if it is swallowed. may cause dizziness, incoordination, headache, nausea, and vomiting.
<b>Inhalation:</b> High vapor or aerosol mist concentrations may be irritating to the nose, throat and upper respiratory tract. Effects may include headaches, dizziness, drowsiness, anesthetic and may have other central nervous system effects.
<b>Chronic Exposure:</b> No Data
<b>Carcinogenicity:</b> No Data.
<b>Medical Conditions Aggravated by Exposure:</b> No Data.

## SECTION 4 – FIRST AID MEASURES

<b>Eyes:</b> immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.
<b>Skin:</b> For skin contact flush with large amounts of water. Immediately take off all contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before reuse.
<b>Ingestion:</b> If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Note to Physician: If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.
<b>Inhalation:</b> If symptoms are experienced, remove source of contamination or move victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. If symptoms persist, get medical attention.

## SECTION 5 – FIREFIGHTING MEASURES

<b>Flash Point:</b> <73°F
<b>Autoignition Temp:</b> 462°C/863.6°F
<b>Hazardous Products of Combustion:</b> May form carbon monoxide.
<b>Flammable Limits in Air:</b> OSHA Flammability Class: Flammable IA
<b>Extinguishing Media:</b> Dry chemical, foam, carbon dioxide, water fog.
<b>Fire and Explosion Hazards:</b> CONTENTS UNDER PRESSURE. Do not use near fire, sparks or flame. Do not puncture or incinerate container. Exposure to temperature above 120°F may cause bursting.
<b>Special Firefighting Procedures:</b> Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Spill or Leak:** Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Wear appropriate personal protective equipment during cleanup. Stop leak if you can do it without risk. Do not touch or walkthrough spilled material. Small Spills: Absorb or cover with dry earth, sand or other non-combustible material & transfer to containers. Use clean non-sparking tools to collect absorbed material. Large Spills: Dike ahead of liquid spill for later disposal. Prevent entry into waterways, sewers, basements or confined areas.

## SECTION 7 – HANDLING AND STORAGE

**Handling Procedures and Equipment:** Avoid contact with skin, eyes & clothing. Avoid breathing mists or aerosols of this product. Keep product from heat, sparks, or open flame. Eliminate all sources of ignition. Wash hands before eating, drinking, smoking, or using toilet facilities. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

**Storage Requirements:** Store in dry place no lower in temperature than 50°F or higher than 120°F. Do not pressurize, cut, heat or weld containers. Empty product containers may contain product residue. Do not reuse empty containers. DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory Protection:** Under normal conditions, respirator is not normally required. If vapors are present or irritation is experienced, NIOSH approved respiratory protection for ammoniacal vapors should be worn.

**Eye Protection:** Wear chemical goggles and face shield.

**Protective Clothing:** Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves. Use impervious gloves.

**Exposure Guidelines:** No Data.

**Specific Engineering Controls (such as ventilation, enclosed process):** Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. Eye wash fountain and emergency showers are recommended.

Isobutane 75-28-5

ACGIH - Occupational Exposure Limits - TWAs 1000ppm TWA

NIOSH - Pocket Guide - Target Organs CNS

NIOSH - Pocket Guide - TWAs 800ppm TWA; 1900mg/m3 TWA

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical Form:</b> Liquid	<b>Freezing Point:</b> Not est. °C/Not est. °F	<b>% Volatile by Weight:</b> >90%
<b>Color:</b> Clear	<b>Vapor Density [air =1]:</b> Heavier than air	<b>Evaporation Rate:</b> Faster than Butyl Acetate
<b>Odor:</b> No Data.	<b>Vapor Pressure:</b> No Data.	<b>Specific Gravity:</b> (0.962 g/ml), 8 lb/gal
<b>Boiling Point:</b> <35°C/<95°F	<b>Solubility in Water:</b> No Data.	<b>pH (concentrate):</b> 11.7 (as is)

## SECTION 10 – STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal conditions.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:** This product may react with strong oxidizing agents, anionic compounds.

**Reactive Conditions to avoid:** Keep away from heat, sparks, or open flame.

**Decomposition Products:** Upon decomposition, this product may yield oxides of nitrogen and ammonia.

## SECTION 11 – TOXICOLOGICAL INFORMATION

<b>Hazardous Ingredients</b>	<b>CAS #</b>	<b>EINECS #</b>	<b>LD 50 of Ingredient</b> (Specify Species)	<b>LC50 of Ingredient</b> (Specify Species)
Isobutane	75-28-5			Inhalation Rat: 57pph/15M

## SECTION 12 – ECOLOGICAL INFORMATION

<u>Hazardous Ingredients</u>	<u>Aquatic Toxicity Data</u>
No Data	

## SECTION 13 – DISPOSAL CONSIDERATIONS

**Waste Disposal:** Container Disposal: Replace cap & dispose of container in trash. Do not incinerate or puncture. Treatment, storage, transportation & disposal must be in accordance with applicable Federal, State/Provincial & Local regulations. Regulations may vary in different locations. Characterization & compliance with applicable laws are the responsibility solely of the generator.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the hazardous Waste representative at the nearest EPA Regional Office for guidance.

## 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>
<b>DOT</b> (Land)	Consumer Commodity	1950	16 oz. Aerosol Can	(ORM)-D
<b>IMO</b> (Water)	No data	No data	No data	No data
<b>ICAO</b> (Air)	No data	No data	No data	No data

## SECTION 15 – REGULATORY INFORMATION

<b>WHMIS Classification:</b> (Workplace Hazardous Material Information System)	No Data.
<b>SARA Title III:</b> (Superfund Amendments & Reauthorization Act)	This product may contain the following ingredients known to the State of California to cause cancer, birth defects or other reproductive harm: Nitrotriacetic acid (NTA) (CAS RN: 139-13-9) Ethylene Oxide (CAS RN: 75-21-8)
<b>OSHA:</b> (Occupational Safety & Health Administration)	No data
<b>TSCA:</b> (Toxic Substance Control Act)	This product is considered a pesticide, and is therefore excluded from US TSCA Regulations.
<b>VOC:</b> (volatile Organic Compounds)	RVOC 5% (Isobutane)
<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: 2 Flammability: 4 Reactivity: 0

## 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.