



# MATERIAL SAFETY DATA SHEET

## Cal-Brite

### I - PRODUCT IDENTIFICATION

**Company Name:** Nu-Calgon Wholesaler, Inc.  
**Address:** 2008 Altom Court, St. Louis, MO 63146-4151  
**Product Name:** Cal-Brite  
**Synonyms:** Coil cleaner

**Tel No:** (314) 469-7000, (800) 554-5499  
**CHEMTREC:** (800) 424-9300  
**Product Number:** 4133

### II - HAZARDOUS INGREDIENTS OF MIXTURES

<u>MATERIAL</u>	<u>CAS#</u>	<u>% By Wt</u>	<u>TLV</u>	<u>PEL</u>
Ammonium Bifluoride	1341-49-7	2-20 %	2.5mg/m*	2.5mg/m*
Glycolic Acid	79-14-1	2-15 %	N/A	N/A
C <sub>11</sub> alcohol ethoxylate	68439-46-3	2-10 %	N/A	N/A

\*mg/cubic meter

All ingredients are TSCA listed.

### III - PHYSICAL DATA

**Vapor Pressure:** N/A  
**Evaporation Rate:** N/A  
**Solubility in H<sub>2</sub>O:** Complete  
**Freezing Point °F:** 32 °  
**Boiling Point °F:** 212 °  
**Specific Gravity H<sub>2</sub>O=1 @25° C:** 1.01

**Vapor Density (Air=1) 60-90° F:** N/A  
**VOC Content (% by wt.):** N/A  
**pH @ Solution:** N/A  
**pH as Distributed:** 4-5  
**Appearance:** Clear liquid  
**Odor:** Alcohol

### IV - FIRE AND EXPLOSION

**Flash Point F:** None to boiling **Flammable Limits:** Non-flammable  
**Extinguishing Media:** Use media appropriate for surrounding material  
**Special Fire Fighting Procedures:** None  
**Unusual Fire and Explosion Hazards:** None

### V - REACTIVITY DATA

**Stability - Conditions to avoid:** Stable at normal temperatures and storage conditions  
**Incompatibility:** None  
**Hazardous Decomposition Products:** Decomposition will not occur  
**Conditions Contributing to Hazardous Polymerizations:** Polymerization will not occur

### VI - HEALTH HAZARD DATA

#### EFFECTS OF OVEREXPOSURE (Medical Conditions Aggravated/Target Organ Effects),

**A. ACUTE (Primary Route of Exposure) SKIN:** May cause skin irritation with discomfort or rash or skin burns or ulceration. **EYES:** May cause eye irritation with discomfort, tearing, or blurring of vision; or eye corrosion with cornea or conjunctival ulceration. **INHALATION:** May cause irritation of the upper respiratory passages with coughing and discomfort; or temporary nervous system depression with anaesthetic effects such as dizziness, headache, confusion, incoordination, and loss of consciousness. Inhalation of ammonium bifluoride may be fatal as a result of spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Symptoms exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. Chronic exposure to fluoride may cause fluorosis with weight loss, anemia, weakness, general ill health, stiffness of joints. **INGESTION:** May cause upper gastrointestinal irritation or corrosion of mucous membranes with stomach discomfort, nausea and prostration or abnormal liver function as detected by laboratory tests. Fatality may occur from gross overexposure.

#### B. SUBCHRONIC, CHRONIC, OTHER:

#### C. MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:

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## VII - EMERGENCY AND FIRST AID PROCEDURES

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**INHALATION:** If inhaled, immediately remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**EYES:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**SKIN:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Call a physician. Wash contaminated clothing before reuse.

**INGESTION:** If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician. Notes to Physicians: Activated charcoal mixture may be beneficial. Suspend 50 g activated charcoal in 400 ml water and mix well. Administer 5 ml/kg, or 350 ml for an average adult.

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## VIII - SPILL OR LEAK PROCEDURE

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**Spill Management:** Safeguards (Personnel) NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONNEL PROTECTIVE EQUIPMENT during clean-up. Spill Clean Up: Soak up with dry or other absorbent material.

**Waste Disposal Methods:** Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Providence, and Local regulations.

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## IX - PROTECTION INFORMATION/CONTROL MEASURES

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**Respiratory:** NIOSH/MSHA approved protection, as appropriate.

**Eye Protection:** Goggles **Glove:** Rubber Gloves

**Other Clothing and Equipment:** Wear appropriate, impervious clothing to prevent contact (gloves, apron, pants, jacket, hood, boots) or full acid suit with hood, boots and gloves. (Neoprene gloves suggested).

**Ventilation:** Use only with adequate ventilation.

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## X - SPECIAL PRECAUTIONS

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**Precautions to be taken in Handling and Storing :** Do not breathe vapor or mist. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Wash clothing after use.

**Additional Information:** Keep container tightly closed.

### NFPA

Health Hazard .....: 1

Fire Hazard .....: 0

Reactivity .....: 0

Specific Hazard ...:

### HMIS RATING

Health Hazard .....: 1

Fire Hazard .....: 0

Reactivity .....: 0

Personal Protection ...: X (Sec. 9)

**Revision Date:** 09/09/2002

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