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MATERIAL SAFETY DATA SHEET

PDF Version of MSDS

Cal-Brite

I - PRODUCT IDENTIFICATION

Company Name: Nu-Calgon Wholesaler, Inc. **Tel No:** (314) 469-7000, (800) 554-5499
Address: 2008 Altom Court, St. Louis, MO 63146-4151 **CHEMTREC:** (800) 424-9300
Product Name: Cal-Brite **Product Number:** 4133
Synonyms: Coil cleaner

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 ₁₁ 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 **Vapor Density (Air=1) 60-90°F:** N/A
Evaporation Rate: N/A **VOC Content (% by wt.):** N/A
Solubility in H₂O: Complete **pH @ Solution:** N/A
Freezing Point °F: 32°F **pH as Distributed:** 4-5
Boiling Point °F: 212°F **Appearance:** Clear liquid
Specific Gravity H₂O=1 @25°C: 1.01 **Odor:** Alcohol

IV - FIRE AND EXPLOSION

Flash Point F: None to boiling **Flammable Limits:** Nonflammable
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:**

VII - EMERGENCY AND FIRST AID PROCEDURES

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.

VIII - SPILL OR LEAK PROCEDURE

Spill Management: Safeguards (Personnel) NOTE: Review I 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.

IX - PROTECTION INFORMATION/CONTROL MEASURES

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.

X - SPECIAL PRECAUTIONS

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 HMIS RATING

Health Hazard.....: 1 Health Hazard.....: 1

Fire Hazard.....: 0 Fire Hazard.....: 0

Reactivity.....: 0 Reactivity.....: 0

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

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Category: ←COIL CLEANER

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