

MATERIAL SAFETY DATA SHEET



I - PRODUCT IDENTIFICATION

COMPANY NAME: Calgon Vestal Laboratories
 ADDRESS: 5035 Manchester Avenue
 St. Louis, MO 63110
 Tel No: (314)535-1810
 Nights: (314)862-2000
 CHEMTREC: (800)424-9390
 PRODUCT NAME: Ice Machine Sanitizer
 Product No.: 4211
 Synonyms: Industrial Sanitizer

II - HAZARDOUS INGREDIENTS OF MIXTURES

MATERIAL:	(CAS#)	(ORAL LD50)	% By Wt.	TLV	PEL
n-Alkyl Dimethyl Benzyl Ammonium Chloride	(68424-85-1)	(280-880mg/kg)	7.5	N/A	N/A

III- PHYSICAL DATA

Vapor Pressure, mm Hg: Like Water	Vapor Density (Air=1)60-90F: Like H2O
Evaporation Rate(ether=1): N/A	% Volatile by wt <5%
Solubility in H2O: Complete	pH @ 1% Solution 6.5 - 8.8
Freezing Point F: N/A	pH as Distributed: N/A
Boiling Point F: Like Water	Appearance: Clear/slightly hazy liquid
Specific Gravity H2O=1 @25C: 0.990	Odor: Slight chemical odor

IV - FIRE AND EXPLOSION

Flash Point F: Not flammable
 Flammable Limits: N/A
 Extinguishing Media: Product is not flammable or combustible. Use media appropriate for the primary source of fire.
 Special Fire Fighting Procedures: Use caution when fighting any fire involving chemicals. Wear self-contained breathing apparatus in the event of a fire.
 Unusual Fire and Explosion Hazards: None

V - REACTIVITY DATA

Stability - Conditions to avoid: Unknown
 Incompatibility: Strong acids or oxidizers.
 Hazardous Decomposition Products: Unknown
 Conditions Contributing to Hazardous Polymerization: None known

(Cont'd on Page 2)

Ice Machine Sanitizer
VI - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (Medical Conditions Aggravated/Target Organ Effects,
A. ACUTE (Primary Route of Exposure) EYES: This product may result in irritation or severe damage on contact with eye. SKIN: (Primary Route of Exposure) Product may result in irritation upon contact with skin. Cases of allergic contact dermatitis have been reported as a result of exposures to some benzalkonium chloride compounds. INHALATION: Inhalation of concentrated mist or vapor may result in irritation of the nose, throat and lungs. INGESTION: Product and product solutions may be considered moderately to slightly toxic if ingested. Irritation or swelling of tissues of mouth, throat and stomach may occur. Pain, nausea and vomiting as well as muscular weakness, difficulty in breathing, and depressed respiration may result.
B. SUBCHRONIC, CHRONIC, OTHER: No available information was found.

VII - EMERGENCY AND FIRST AID PROCEDURES

EYE: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical aid. SKIN: Immediately flush with plenty of water for at least 15 minutes. If irritation develops, seek medical aid. INHALATION: Remove to fresh air. Contact physician if irritation persists. INGESTION: Drink promptly a large quantity of milk, egg whites, gelatin solution or if not available, large quantities of water. Avoid alcohol. Seek medical aid immediately. NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

VIII - SPILL OR LEAK PROCEDURES

Spill Management: Dike area, contain as much spilled material possible. Absorb on suitable material and place in sealed metal container for disposal. Keep out of sewers, drains, surface waters and soil.

Waste Disposal Methods: Do not contaminate water, food or feed by storage or disposal. Do not reuse empty container. Waste resulting from the use of this product may be disposed of on site or at approved waste disposal facility. Dispose of in accordance with all federal, state and local regulations.

IX - PROTECTION INFORMATION/CONTROL MEASURES

Respiratory: Not required

Eye: Chemical splash goggles

Glove: Rubber gloves

Other Clothing and Equipment: Rubber apron if splashing potential exists.

Ventilation: Local and mechanical exhaust is recommended.

X - SPECIAL PRECAUTIONS

Precautions to be taken in Handling and Storing: DANGER! Keep out of reach of children. Concentrate corrosive, causes eye damage and skin irritation. Do not get in eyes, on skin or clothing. May be harmful if swallowed. Avoid breathing spray mist. Avoid contamination of food. Wash thoroughly.

Additional Information: Read and observe all labeled precautions.

Prepared by: R.C. Jente

Revision Date: 09/18/87

Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

While Seller believes that the information contained herein is accurate, such