

Material Safety Data Sheet

Liberty L-671

Identity (Trade Name As Used On Label)

Calgon Vestal Laboratory Packager:

Manufacturer
5035 Manchester Avenue Liberty Enterprises
Address
St. Louis, MO 63110 P. O. Box 639, Rt. 5S
(314) 535-1810 Amsterdam, NY 12010
Phone Number (For Information)
nights (314) 862-2000 (518) 842-5080
Emergency Phone Number

MSDS Number*	HAZARD RATING 4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-INSIGNIFICANT	FIRE 0 1 0 0	TOXICITY 0-INSIGNIFICANT	REACTIVITY 0 0 0 0	SPECIAL
CAS Number* 9/27/90					

Date Prepared
Bill Ziese
Prepared By*

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS — Chemical Name & Common Names (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	%*	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
MATERIAL: (CAS#)				
Octyl decyl dimethyl ammonium chloride (68424-95-3)	3.25	N/A	N/A	
Diocetyl dimethyl ammonium chloride (68424-95-3)	1.63	N/A	N/A	
Didecyl dimethyl ammonium chloride (68424-95-3)	1.63	N/A	N/A	
n-alkyl (60% C14, 30% C16, 5% C12, 5% C18)				
dimethyl benzyl ammonium chloride (68391-01-5)	3.16	N/A	N/A	
n-alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride (68956-79-6)	3.16	N/A	N/A	
Non-Hazardous Ingredients	87.17			
TOTAL	100			

SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS

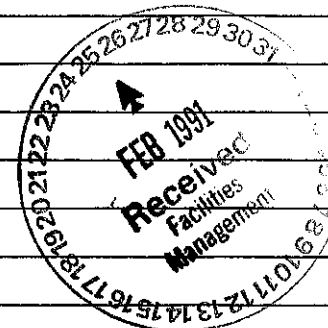
Boiling Point N/A	Specific Gravity (H ₂ O = 1) 0.8 g/ml
Vapor Pressure (mm Hg and Temperature) N/A	Melting Point N/A
Vapor Density (Air = 1) N/A	Evaporation Rate (_____ = 1) N/A
Solubility in Water complete	Water Reactive no

Appearance and Odor light blue powder in clear water soluble packet; mild pleasant odor

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method Used > 190°F C.C	Auto-Ignition Temperature N/A	Flammability Limits in Air % by Volume N/A	LEL	UEL
Extinguisher Media water, CO ₂ , foam, dry chemical				
Special Fire Fighting Procedures N/A				
Unusual Fire and Explosion Hazards N/A				

*Optional



SECTION 4 - REACTIVITY HAZARD DATA

STABILITY <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	Conditions To Avoid none known
Incompatibility (Materials to Avoid)	strong acids, soaps, phenolics, other germicides
Hazardous Decomposition Products	CO ₂ , CO, NO _x in extreme heat
HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	Conditions To Avoid N/A

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY	<input type="checkbox"/> Inhalation <input type="checkbox"/> Skin Absorption	<input checked="" type="checkbox"/> Ingestion <input type="checkbox"/> Not Hazardous	CARCINOGEN LISTED IN	<input type="checkbox"/> NTP <input type="checkbox"/> IARC Monograph	<input type="checkbox"/> OSHA <input checked="" type="checkbox"/> Not Listed
HEALTH HAZARDS	Acute Corrosive to skin and eyes. Mists of use solution may irritate nasal passages. Chronic None known.				
Signs and Symptoms of Exposure	irritation				
Medical Conditions Generally Aggravated by Exposure	none known				

EMERGENCY FIRST AID PROCEDURES - Seek medical assistance for further treatment, observation and support if necessary.

Eye Contact
Flush with warm water for at least 15 minutes. Get medical attention.

Skin Contact
Flush thoroughly with water. Remove contaminated clothing and launder before reuse.

Inhalation
Mists of use solutions; if irritated, remove to fresh air.

Ingestion
If swallowed, drink a large quantity of milk, egg whites, gelation solution or water.
Avoid alcohol. DO NOT induce vomiting. Promptly call physician.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (Specify Type)	N/A	Eye Protection	safety glasses or goggles
Protective Gloves	rubber	VENTILATION TO BE USED	<input checked="" type="checkbox"/> Local Exhaust <input type="checkbox"/> Mechanical (general) <input type="checkbox"/> Special
Other Protective Clothing and Equipment	N/A	Hygienic Work Practices	wash hands thoroughly after handling packets or solution.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE / LEAK PROCEDURES

Steps to be Taken If Material Is Spilled Or Released
Sweep up dry powder or flush to sanitary sewer with water.

Waste Disposal Methods
In a toilet or service sink served by sanitary sewer, in a landfill approved for pesticides or bury in a safe place away from water supplies. Triple rinse container and incinerate or bury in an approved landfill.

Precautions to be Taken in Handling and Storage
Close container after use. Handle packets with dry hands. This product will not freeze. It does not perform properly if used or rapidly heated immediately after removal from unheated storage. Store at normal room temperature for 24-48 hours following any prolonged exposure to the cold. **Additional Information:** Read and observe labeled use instructions.

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 the label instructions.

While Seller believes that the information contained herein is accurate, such information is offered solely for its customers' consideration and the verification under their specific use conditions. This information is not to be deemed a warranty or representation of any kind for which seller assumes legal responsibility.