

MATERIAL SAFETY DATA SHEET

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SECTION I				
Product Identity (Name / Number)		REFRESH SANITIZER / 9709		
Chemical Family		Sanitizer HMIS & NFPA Hazard Ratings: Health=2, Flammability=1, Reactivity=0		
SECTION II - Hazardous Ingredients				
Hazardous Components	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Di-(C8-10)-alkyl dimethyl ammonium chlorides	N/D	N/D		< 5%
Alkyl dimethyl benzyl ammonium chloride (C12-16)	N/D	N/D		< 4%
Ethanol	1000ppm	1000ppm		< 2%
Free Amine				< 1%
SECTION III - Physical & Chemical Characteristics				
Boiling Point	Above 212°F	Specific Gravity	1	
Vapor Pressure (mm Hg)	Not Determined	Melting Point	N/A	
pH	7-8	Evaporation Rate (Ethyl Ether=1)	Less than 1	
Solubility in Water	Complete	Appearance / Odor	Clear Colorless Liquid	
SECTION IV - Fire & Explosion Hazard Data				
Flammable Limits (Explosive Limit)	Upper:	N/A	Lower:	N/A
Flash Point (Method Used)	N/A			
Extinguishing Media	Material is non-flammable. Water fog, foam, carbon dioxide, or dry chemical may be used for surrounding fires.			
Special Fire Fighting Procedures	Product is not flammable. Wear full fire-fighting turn-out gear including NIOSH-approved self-contained breathing apparatus.			
Unusual Fire and Explosion Hazards	Irritating and toxic gases or fumes may be released during a fire.			
SECTION V - Reactivity Data				
Stability:	Unstable		X	Stable
Hazardous Polymerization:	X	Will Not Occur	May Occur	
Conditions To Avoid	Keep away from heat and incompatible materials.			
Incompatibility (Materials to Avoid)	Strong oxidizing agents and anionic compounds			
Hazardous Decomposition or Byproducts	Oxides of nitrogen and ammonia.			

SECTION VI(a) - Health Hazard Data

Inhalation	Irritating to mucous membranes. High vapor concentrations may cause central nervous system effects such as headaches, dizziness, drowsiness and anesthetic.
Eye	Even slight contact of the liquid with eyes will result in severe irritation and may be corrosive.
Skin	Repeated or prolonged contact may cause moderate to severe irritation. Not considered a dermal sensitizing agent. May be harmful if absorbed through skin.
Ingestion	Harmful if swallowed. Ingestion may result in severe burns to mucous membranes and digestive system. Ingestion may result in central nervous system effects including headache, sleepiness, dizziness, slurred speech and blurred vision.

Reported As Potential Carcinogen or Carcinogen

	International Agency for Research on Cancer	X	Not Applicable
	National Toxicology Program		OSHA

SECTION VI(b) - First Aid Procedures

Inhalation	Remove victim to fresh air. If breathing is difficult, give oxygen. If not breathing, perform artificial respiration, preferably mouth-to-mouth. Get medical attention.
Eye	Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids open. Get medical attention.
Skin	Wash thoroughly with water for at least 15 minutes. Remove contaminated clothing. Get medical attention.
Ingestion	DO NOT induce vomiting. Get immediate medical attention.

SECTION VI(c) - Employee Protection

Respiratory Protection (Utilize NIOSH approved respirators. Refer to manufacturer's protection factors and OSHA standard 1910.134 as a guideline.) If TLV is exceeded, use NIOSH approved respirators, fully enclosed.

SPECIAL PROTECTION INFORMATION:

EYE	Chemical safety goggles or full face shield required
SKIN	Use impervious gloves and protective clothing
VENTILATION	Provide sufficient mechanical ventilation to maintain exposure below TLV's.
SPECIAL PROTECTION	Impervious clothing and boots may be worn to prevent skin contact. Showers and eyewash facilities should be in close proximity.

SECTION VII - Special Precautions

Handling and Storage	Store in dry, cool area away from strong acids and ignition sources. Do not store in metal containers. Avoid freezing or excessive heat. Wash hands before eating, drinking, smoking, or using toilet facilities.
Other Precautions	Spilled material may be slippery. Rinse thoroughly after handling.

SECTION VIII - Environmental Protection

Spills / Releases	Contain all spills and leaks to prevent discharge into the environment. Toxic to aquatic organisms. Soak up with absorbant, shovel into waste container. Flush area with water. (Also refer to the label.)
Waste Disposal Method	Recover material or dispose of in accordance with applicable local, state and federal regulations. (Also refer to the label.)

DISCLAIMER The information contained herein is based upon data available to us and reflects our best professional judgement. Since it is impossible to anticipate the conditions under which our products may be used, we cannot guarantee that the recommendations will be adequate for all individuals and situations. Each user of this product should determine the suitability of the product for his particular purpose and should comply with all federal, state and local regulations. Our goal is to manufacture products with zero or minimal hazards. Our products are improved daily as up-to-date information and research is received from our suppliers to use products with less or no hazards. Please feel free to contact us for current information.