

SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS)

N/D=Not Determined
N/A=Not Applicable

Product: SANI-CLEAN	Manufacturer: ESTEAM	Flammability: 0
Chem. Name: N/A	Trade Name: Sani-Clean	Reactivity: 0
Chem. Family: Mixture	Use: Quaternary ammonia disinfectant cleaner	Health: 2
		Protection:
NFPA LEAST=0, SLIGHT=1, MODERATE=2, HIGH=3, EXTREME=4		

HAZARDOUS INGREDIENTS	CAS #	% WT	HAZARD DATA	EXPOSURE LIMITS (TLV)
N-Alk(c12-c18)N, N-Dimethyl-N-Benzylammonia Chloride	68424-85-1	1-2	N/D	N/D
N,N-Dialkyl(C-8,10)-N, N-Dimethylammonia Chloride	68424-95-3	1-2	LD50 366 mg/kg (80%)oral-rat)	N/D

PHYSICAL DATA				Freeze/Thaw
Physical State: Liquid	Boiling Point (C): 100	Solubility in Water: 100 %	Evaporation Rate: N/D	Stable: Yes
Odor: Clear, alcohol	Freezing Point (C): N/D	Ph (undiluted): 12.1	Specific Gravity: N/D	Percent Volatile (vol): N/D
Appearance: odor				Vapor Pressure: N/D

FIRE & EXPLOSION HAZARD		Conditions:
Flammability: N	Hazardous Combustion Products: N/A	Conditions: N/A
Means of Extinction: N/A	Upper Explosion Limit (% by vol): N/A	
Special Procedures: Avoid eye and skin contact	Lower Explosion Limit (% by vol): N/A	
Explosion Sensitivity to Impact: N/A	Auto-ignition: N/A	
Chemical Sensitivity to Static Discharge: N/A	Rate of Burning: N/A	TDG/WHMIS: Non hazardous / E, D2B
Flashpoint (C) & Method: None	Explosive Power: N/A	

REACTIVITY DATA	Chemical Stability:
Hazardous Decomposition Product: None	Stable: Stable
	Incompatible Substances: Anionic materials, bleach or oxidizing agents.

TOXICOLOGICAL PROPERTIES		
Route of Entry - Skin Contact: Y Route of Entry - Skin Absorption: N Route of Entry - Eye Contact: Y Route of Entry - Inhalation: Y Route of Entry - Ingestion: Y	Reproductive Effects Y/N: N Carcinogenicity Y/N: N Mutagenicity Y/N: N Teratogenicity Y/N: N TLV: N/D	Effects of Overexposure: Acute Effects: Skin contact may cause irritation. Eye contact may cause severe irritation or injury. Inhalation of mist may cause irritation of nose and throat. Ingestion may cause burning or pain in the mouth. Chronic Effects: Repeated skin contact may lead to defatting dermatitis.

PREVENTATIVE MEASURES						
<table style="width: 100%;"> <tr> <td style="width: 33%;">Gloves: Impervious</td> <td style="width: 33%;">Footwear: N/A</td> <td style="width: 33%;">Clothing: N/A</td> </tr> <tr> <td>Eyes: Chemical Goggles</td> <td>Respirator: NIOSH organic vapour</td> <td>Other: N/A</td> </tr> </table>	Gloves: Impervious	Footwear: N/A	Clothing: N/A	Eyes: Chemical Goggles	Respirator: NIOSH organic vapour	Other: N/A
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Eyes: Chemical Goggles	Respirator: NIOSH organic vapour	Other: N/A				

Recommended Engineered Controls: Use with adequate ventilation.	Leak & Spill Procedures: Mop up excess. Flush with water to a sanitary sewer.	Waste Disposal Methods: According to federal, provincial and municipal regulations.	Special Handling Procedures: Avoid contact with food. Keep container closed when not in use. Store in a cool, dry place away from children.
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FIRST AID MEASURES
Inhalation: Move person to fresh air. If necessary give artificial respiration or oxygen. Call a doctor if in distress.
Ingestion: Contact a physician.
Eye Contact: Immediately flush eyes with running water for at least 15 minutes. Contact a physician if irritation persists.
Skin Contact: Immediately flush skin for at least 15 minutes. Launder clothing before reuse. Contact a physician if irritation persists.

Prep./Revised Date: January 8, 2010	Mailing Address: Esteam Manufacturing Ltd. 3750-19th Street NE Calgary, AB T2E 6V2
Prepared By: R. Russell	
Source Material: Manufacturer's MSDS	
Emergency Response: 1-613-996-6666 (Transport Emergencies)	



This information is complete to the best of our knowledge, however, users are encouraged to make their own investigations into the suitability of the information to their particular purposes. READ THE LABEL before using this or any product, and take any necessary precautions, dictated by the label or by common sense to ensure that your health is protected.