

SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS)

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

Product: Tile & Grout Alkaline Cleaner	Manufacturer: ESTEAM	Flammability: 0
Chem. Name: N/A	Trade Name: Alkaline Cleaner	Reactivity: 1
Chem. Family: Mixture	Use: High pH Tile & Grout Cleaner	Health: 2
		Protection:
<small>NFPA LEAST=0, SLIGHT=1, MODERATE=2, HIGH=3, EXTREME=4</small>		

HAZARDOUS INGREDIENTS	CAS #	% WT	HAZARD DATA	EXPOSURE LIMITS (TLV)
Tetra potassium pyrophosphate	7320-34-5	1-3	4000 mg/kg (oral rat)	
Potassium hydroxide	1310-58-3	1-3-	273 mg/kg (oral rat)	
Sodium metasilicate	6834-92-0	1-3	0.8 g/kg (oral rat)	2 mg/m3

PHYSICAL DATA				
Physical State: Liquid	Boiling Point (C): N/D	Solubility in Water: 100 %	Evaporation Rate: N/D	Percent Volatile (vol): N/D
Odor: slight pungent,	Freezing Point (C): -10	Ph (undiluted): 13.3	Specific Gravity: 1.05	Vapor Pressure: N/D
Appearance: water white				

FIRE & EXPLOSION HAZARD		
Flammability: No	Conditions: N/A	
Means of Extinction: N/A	Hazardous Combustion Products: N/A	Less than 5 L classified as "limited quantities". Potassium hydroxide solution TDG/WHMIS: class 8 PG III, UN1814, E,D2B
Special Procedures: N/A	Upper Explosion Limit (% by vol): N/A	
Explosion Sensitivity to Impact: N/A	Lower Explosion Limit (% by vol): N/A	
Chemical Sensitivity to Static Discharge: N/A	Auto-ignition: N/A	
Flashpoint (C) & Method: N/D	Rate of Burning: N/A	
	Explosive Power: N/A	

REACTIVITY DATA	Chemical Stability: Stable
Hazardous Decomposition Product: Hydrogen	Incompatible Substances: None known.

TOXICOLOGICAL PROPERTIES																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Route of Entry - Skin Contact:</td><td>Y</td></tr> <tr><td>Route of Entry - Skin Absorption:</td><td>N</td></tr> <tr><td>Route of Entry - Eye Contact:</td><td>Y</td></tr> <tr><td>Route of Entry - Inhalation:</td><td>N</td></tr> <tr><td>Route of Entry - Ingestion:</td><td>Y</td></tr> </table>	Route of Entry - Skin Contact:	Y	Route of Entry - Skin Absorption:	N	Route of Entry - Eye Contact:	Y	Route of Entry - Inhalation:	N	Route of Entry - Ingestion:	Y	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Reproductive Effects Y/N:</td><td>N</td></tr> <tr><td>Carcinogenicity Y/N:</td><td>N</td></tr> <tr><td>Mutagenicity Y/N:</td><td>N</td></tr> <tr><td>Teratogenicity Y/N:</td><td>N</td></tr> <tr><td>TLV:</td><td>N/D</td></tr> </table>	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: May cause eye burns, irritation to the skin, may irritate throat and nose. Chronic Effects: N/D
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PREVENTATIVE MEASURES						
<table style="width: 100%;"> <tr> <td style="width: 33%;">Gloves: rubber gloves</td> <td style="width: 33%;">Footwear: N/A</td> <td style="width: 33%;">Clothing: N/A</td> </tr> <tr> <td>Eyes: chemical resistant glasses</td> <td>Respirator: N/A</td> <td>Other: N/A</td> </tr> </table>	Gloves: rubber gloves	Footwear: N/A	Clothing: N/A	Eyes: chemical resistant glasses	Respirator: N/A	Other: N/A
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Eyes: chemical resistant glasses	Respirator: N/A	Other: N/A				

Recommended Engineered Controls: Use with adequate ventilation.	Leak & Spill Procedures: Flush to a sanitary drain.	Waste Disposal Methods: According to federal, provincial and municipal regulations.	Special Handling Procedures: Industrial use only. Keep out of reach of children.
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FIRST AID MEASURES
Inhalation: Move person to fresh air. If necessary give artificial respiration or oxygen. Call doctor if in distress.
Ingestion: Immediately rinse mouth and throat thoroughly with soap and water. Call a physician.
Eye Contact: Immediately flush eyes with water for at least 15 minutes. Call a physician.
Skin Contact: Immediately flush skin with running water for at least 15 minutes. Launder clothing before reuse. Contact a physician if irritation persists.

Prep./Revised Date: December 1, 2008	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.