

SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS)

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

| | | |
|---|---|------------------------|
| Product: Tile & Grout Acidic Cleaner | Manufacturer: ESTEAM | Flammability: 0 |
| Chem. Name: | Trade Name: Acidic Cleaner | Reactivity: 1 |
| Chem. Family: | Use: Tile & Grout Acidic Cleaner | Health: 1 |
| | | Protection: |

NFPA LEAST=0, SLIGHT=1, MODERATE=2, HIGH=3, EXTREME=4

| HAZARDOUS INGREDIENTS | CAS # | % WT | HAZARD DATA | EXPOSURE LIMITS (TLV) |
|-----------------------|----------|--------|--|-----------------------|
| Organic salt | 506-89-8 | 30-60% | 48 hour LC50 71.1 mg/L (ceriodaphnia dubia) | N/D |

PHYSICAL DATA

| | | | | |
|--------------------------------|-------------------------------|-----------------------------------|------------------------------|------------------------------------|
| Physical State: Liquid | Boiling Point (C): N/D | Solubility in Water: 100 % | Evaporation Rate: N/D | Percent Volatile (vol): N/D |
| Odor/ Appearance: Amber | Freezing Point (C): 0 | Ph (undiluted): <1 | Specific Gravity: 1-1 | Vapor Pressure: N/D |

FIRE & EXPLOSION HAZARD

| | | |
|--|--|--|
| Flammability: N/A | Conditions: N/A | |
| Means of Extinction: N/A | Hazardous Combustion Products: N/A | |
| Special Procedures: None | Upper Explosion Limit (% by vol): N/A | |
| Explosion Sensitivity to Impact: None | Lower Explosion Limit (% by vol): N/A | |
| Chemical Sensitivity to Static Discharge: N/A | Auto-ignition: N/A | TDG/WHMIS: Corrosive liquid N.O.S. (urea monohydrochloride) class 8 UN 1760 Pg 111 E , D2B |
| Flashpoint (C) & Method: N/D | Rate of Burning: N/A | |
| | Explosive Power: N/A | |

REACTIVITY DATA

Chemical Stability: Stable

| | |
|---|--|
| Hazardous Decomposition Product: Oxides of carbon, oxides of nitrogen and chlorine | Incompatible Substances: Oxidizer, chlorates or nitrates, hypochlorites |
|---|--|

TOXICOLOGICAL PROPERTIES

| | | |
|--|------------------------------------|---|
| Route of Entry - Skin Contact: N | Reproductive Effects Y/N: N | Effects of Overexposure: Acute Effects: Causes burns to eyes, prolonged or repeated contact may cause irritation. None corrosive to skin. Chronic Effects: Prolonged and repeated exposure can cause drying, defatting and dermatitis. |
| Route of Entry - Skin Absorption: N | Carcinogenicity Y/N: N | |
| Route of Entry - Eye Contact: Y | Mutagenicity Y/N: N | |
| Route of Entry - Inhalation: N | Teratogenicity Y/N: N | |
| Route of Entry - Ingestion: Y | TLV: N/D | |
| | | |

PREVENTATIVE MEASURES

| | | |
|---|--|----------------------|
| Gloves: rubber/nitrile | Footwear: N/A | Clothing: N/A |
| Eyes: chemical resistant glasses | Respirator: not normally required | 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. |
|---|---|---|--|

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: January 15, 2014 | 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.