

L.T.M. LEBANESE TEXTILE MILLS
BLDG. 27, ST. ELIAS STREET
MKALLES, LEBANON,

Section I. Chemical Product and Company Identification

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| Product Name/Trade Name | CERAMIX BATHROOM CLEANER | Code | 1380 |
| Chemical Family | Acid. | In case of Emergency | |
| Manufacturer | AVMOR LTD 433 Ste-Hélène Montreal (Quebec) H2Y 2L1 | Material Uses | Liquid bowl and urinal cleaner. |

Section II. Composition and Information on Ingredients

| Name | CAS # | % by Weight | TLV/PEL | LC50/LD50 |
|--------------------------|-----------|-------------|----------------|---|
| Phosphoric Acid | 7664-38-2 | 10-30 | Not available. | ORAL (LD50): Acute: 1530 mg/kg [Rat.]. DERMAL (LD50): Acute: 2740 mg/kg [Rabbit]. |
| Hydrochloric acid | 7647-01-0 | 1-5 | Not available. | ORAL (LD50): Acute: 900 mg/kg [Rabbit]. |
| Nonyl phenol ethoxylate. | 9016-45-9 | 1-5 | Not available. | ORAL (LD50): Acute: 2590 mg/kg [Rat.]. DERMAL (LD50): Acute: 2830 mg/kg [Rabbit]. |

Section III. Hazards Identification

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| Potential Acute Health Effects | Dangerous in case of skin contact (corrosive, irritant), of eye contact (irritant), of ingestion, of inhalation: liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Severe over exposure by ingestion or inhalation may be harmful. |
| Potential Chronic Health Effects | CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated exposure may cause chronic eye, respiratory tract and skin irritation. |

Section IV. First Aid Measures

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| Eye contact | IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention. |
| Skin contact | Wash the skin with running water and non-abrasive soap. COLD water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. |
| Hazardous Skin Contact | Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention. |
| Inhalation | Allow the victim to rest in a well ventilated area. Seek immediate medical attention. |
| Hazardous Inhalation | Evacuate the victim to a safe area as soon as possible. Loosen tight clothing. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention. |
| Ingestion | DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. Seek immediate medical attention. |
| Hazardous Ingestion | DO NOT induce vomiting. If the victim is not breathing, perform mouth-to-mouth resuscitation or administer oxygen. Have conscious person drink several glasses of water or milk. Seek immediate medical attention. |

Section V. Fire and Explosion Data

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| Flammability of the Product | Combustible. |
| Auto-Ignition Temperature | Not available. |
| Flash Points | Not available. |
| Flammable Limits | Not available. |
| Products of Combustion | Hydrogen chloride gas. Carbon oxides (CO, CO2) phosphates |
| Fire Hazards in Presence of Various Substances | Non-flammable in presence of open flames and sparks, of heat, of oxidizing materials, of reducing materials, of combustible materials. |
| Explosion Hazards | No specific information is available in our database regarding the product's risks of explosion in the presence of various materials. |
| Fire Fighting Media and | SMALL FIRE: Use DRY chemicals, CO2, water spray or foam. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet. |

Section VI. Accidental Release Measures

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| Small Spill | Absorb with an inert DRY material and place in an appropriate waste disposal container. Dispose of in accordance with federal, provincial, or local regulations. |
| Large Spill | Corrosive liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Use water spray curtain to divert vapor drift and reduce vapors. Avoid that product enters sewers, basements or any other closed space. Eliminate all ignition sources. Call for assistance on disposal. |

Section VII. Handling and Storage

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| Precautions | S1/2- Keep locked up and out of the reach of children. S23- Do not breathe gas/fumes/vapor/spray S24/25- Avoid contact with skin and eyes. S26- In case of contact with skin, wash with plenty of water. |
| Storage | Keep away from heat, metals and oxidizing materials. Strong acids that are not strong oxidants should be stored in a separate safety storage cabinet or room. Keep container tightly closed in a cool, well-ventilated place. |

Section VIII. Exposure Controls/Personal Protection

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| Gloves | Gloves (impervious) |
| Respiratory | In case of insufficient ventilation, wear suitable respiratory equipment. |
| Eyes | Splash goggles. Face shield |
| Other | Full suit, apron, face shield, respiratory mask, boots: are recommended under exceptional circumstances such as fire, spill, or for prolonged contact with bulk quantities. |
| Exposure Limits | Hydrogen chloride TWA: 5 (ppm) TWA: 7 (mg/m3) |

Section IX. Physical and Chemical Properties

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| Physical state and appearance | Liquid. (Opaque.) | Odor | Wintergreen. |
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| Boiling point | 100°C (212°F) | Taste | Not available. |
| Melting Point | 0°C (32°F) | Color | Blue. |
| Critical Temperature | Not available. | Molecular Weight | Not applicable. |
| Volatility | 80% (v/v). | pH (in Water) | Not available. |
| Evaporation Rate | Not available. | pH (concentrate) | |
| Vapor Pressure | Weighted average: 2.22 kPa (at 20°C) | Vapor density | Weighted average: 1.02 (Air = 1) |
| Inocity (in Water) | Not available. | Specific Gravity | 1.1 (Water = 1) |
| Dispersion Properties | See solubility in water, methanol. | Viscosity | 3000-4500 cPs |
| Solubility | Easily soluble in cold water, hot water, methanol. Insoluble in diethyl ether, n-octanol. | Odor Threshold | 5 ppm |

Section X. Stability and Reactive Data

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| Stability | Unstable (Hydrochloric acid loses hydrogen chloride gas upon heating). |
| Instability Temperature | Not available. |
| Conditions of Instability | Heating |
| Incompatibility with Various Substances | Highly reactive with alkalis. Slightly reactive to reactive with oxidizing agents, organic materials, metals, acids. |
| Corrosivity | Corrosive in presence of steel, of aluminum, of copper. Non-corrosive in presence of glass, of zinc, of stainless steel(304), of stainless steel(316). |

Section XI. Toxicological Information

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| Routes of Entry | Eye contact. Ingestion. Inhalation. Skin contact. |
| Toxicity to Animals | Acute oral toxicity (LD50): 4700 mg/kg [Rat]. |
| Chronic Effects on Humans | CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated exposure may cause chronic eye, respiratory tract and skin irritation. |
| Engineering Controls | Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location. |

Section XII. Ecological Information

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| Ecotoxicity | Not available. |
| BOD5 and COD | Not available. |
| Products of Biodegradation | Possibly hazardous short/long term degradation products are to be expected. |
| Toxicity of the Products of Biodegradation | The products of degradation are less toxic than the product itself. |

Section XIII. Disposal Considerations

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| Waste Disposal | Dispose of material according to regional, provincial and federal regulations. Consult your local or regional authorities. |
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Section XIV. Transport Information

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| ADR Classification | ADR CLASS 8: Corrosive liquid. |
| UN/NA | |
| Packing Group | III |
| Special Provisions for Transport | No additional remark. |

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Section XV. Other Regulatory Information

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| DSCL (Classification) | R22- Harmful if ingested. R35- Causes severe burns. |
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Section XVI. Other Information

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| References | |
| Validated by the Regulatory Affaires Department on 99-12-01 | Printed 01-1-15 |
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