

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION Identity (As Used on Label and List): Tile Klenz Product Class: Water-based Mild Acid Cleaner. Emergency Telephone Number: 800-255-3924 Telephone Number for Information: 800-950-1975 Distributed By: Dalco 300 5th Ave NW New Brighton, Minnesota 55112												
SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS Hazardous Components (Specific Chemical Identity): <table border="1"><thead><tr><th>Chemical</th><th>Common Name(s)</th><th>%</th></tr></thead><tbody><tr><td>A</td><td>Phosphoric Acid CAS #7664-38-2</td><td>9.5</td></tr><tr><td>B</td><td>Non-Ionic Surfactant CAS # 9016-45-9</td><td>1 - 5</td></tr><tr><td>C</td><td>Water CAS #7732-18-5</td><td>60 - 100</td></tr></tbody></table>	Chemical	Common Name(s)	%	A	Phosphoric Acid CAS #7664-38-2	9.5	B	Non-Ionic Surfactant CAS # 9016-45-9	1 - 5	C	Water CAS #7732-18-5	60 - 100
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SECTION III - HAZARDS IDENTIFICATION Emergency Overview Appearance and Odor: Clear liquid, citrus fresh fragrance. Primary Hazards: Corrosive Potential Health Hazards Route(s) of Entry: Skin Absorption: Ingestion: X Inhalation: Eye: May cause burns on contact. Skin: May cause burns on contact. Ingestion: Harmful if swallowed. Inhalation: No hazardous vapors. Signs and Symptoms of Exposure: Irritation on direct contact. Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No Target Organ (s): No additional data Medical Conditions Generally Aggravated by Exposure: N. Av. Health Hazards, Chronic: N. Av.												
SECTION IV - FIRST AID MEASURES Emergency and First Aid Procedures: If Swallowed: Do not induce vomiting. If a person can swallow, give several glasses of water. Obtain immediate medical attention. Eye Contact: Flush eyes with running water for at least 15 minutes. Obtain immediate medical attention. Skin Contact: Flush with cool water. Remove and wash contaminated clothing before reuse. For Inhalation: Remove to fresh air. If irritation persists, get medical attention. Sources Used: Raw material data, general toxicology from the trade for similar products.												
SECTION V - FIRE FIGHTING MEASURES Flammability: No Autoignition Temperature: N. Ap. Flash Point (method used): None Flammable Limits: N. Ap. LEL UEL Extinguishing Media: N. Ap. Water? Foam? Water Fog? Alcohol Foam? CO₂? Dry Chemical? Vaporizing Liquid? Other? Special Fire Fighting Procedures: N. Ap. Unusual Fire and Explosion Hazards: N. Av. TDG Flammability Classification: Non-flammable Sensitivity to Mechanical Impact: None Sensitivity to Static Discharge: None												
SECTION VI - ACCIDENTAL RELEASE MEASURES Steps to be Taken in Case Material is Released or Spilled: Dike and contain spill with inert material (sand, earth, etc). Collect spill with mop, absorbent material (example: floor-dri) or vacuum. Thoroughly rinse affected area with water.												
SECTION VII - HANDLING AND STORAGE Precautions to be Taken in Handling and Storing: Normal care in handling and storage. Other Precautions: Keep out of reach of children. Keep from freezing.												
SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION Respiratory Protection (Specify Types): Not required Ventilation: Local Exhaust: Not required Special: Not required Mechanical (General): Normal good ventilation sufficient. Other: Not required Protective Gloves: Natural rubber or synthetic. Eye Protection: Approved safety goggles or glasses. Footwear: Not required Other Protective Clothing or Equipment: Not required Work/Hygienic Practices: Do not contaminate food or beverages with cleaning chemicals.												

SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS Boiling Point: Approximately 212°F pH: 2-3 (1% solution) Specific Gravity (H2O) = 1: 1.05 % Volatile: 65 - 75 Vapor Density (Air = 1): < 1 Odor Threshold: N. Av. Evaporation Rate (Butyl Acetate = 1): N. Av. Oil/Water Distribution Solubility in Water: Complete Coefficient: N. Av. Vapor Pressure (MM HG): N. Av. Melting Point: N. Ap.																								
SECTION X - STABILITY AND REACTIVITY Stability: Unstable: Stable: X Conditions to Avoid: Do not mix with any other chemicals, especially alkaline, bleach or ammonia cleaners. Avoid contact with alkaline & reactive metals.. Incompatibility (materials to avoid): Mild steel and aluminum may react to produce hydrogen gas that can produce an explosive in confined vessels. Reacts violently with strong bases. Do not use on marble, terrazzo, natural stone or other acid sensitive surfaces. Hazardous Decomposition or By-products: N. Av. Hazardous Polymerization: May occur: Will not occur: X																								
SECTION XI - TOXICOLOGICAL INFORMATION <table border="1"><thead><tr><th>Chemical</th><th>OSHA PEL</th><th>ACGIH TLV</th><th>Recom.</th><th>LD50</th><th>LC50</th></tr></thead><tbody><tr><td>A</td><td>1 mg/m3</td><td>1 mg/m3</td><td>N. Ap.</td><td>4,400 mg/kg (rat, oral)</td><td>7.7 mg/L (rat, 4 hrs.)</td></tr><tr><td>B</td><td>None</td><td>None</td><td>N. Av.</td><td>2,100 mg/kg (rat, oral)</td><td>>200 MG/L (rat, 1 hr.)</td></tr><tr><td>C</td><td>None</td><td>None</td><td>N. Av.</td><td>N. Av.</td><td>N. Av.</td></tr></tbody></table> Teratogen, Mutagen, Reproductive Toxin Status: No Toxicologically Synergistic Products: N. Av.	Chemical	OSHA PEL	ACGIH TLV	Recom.	LD50	LC50	A	1 mg/m3	1 mg/m3	N. Ap.	4,400 mg/kg (rat, oral)	7.7 mg/L (rat, 4 hrs.)	B	None	None	N. Av.	2,100 mg/kg (rat, oral)	>200 MG/L (rat, 1 hr.)	C	None	None	N. Av.	N. Av.	N. Av.
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SECTION XII - ECOLOGICAL INFORMATION Ecotoxicological Information: N. Av. Chemical Fate Information: N. Av.																								
SECTION XIII - DISPOSAL CONSIDERATIONS Waste Disposal Method: Neutralize and dispose of spilled material in accordance with local, state and federal regulations. Waste from normal cleaning procedures may be sewerred, depending on the materials and/or contaminants being cleaned as well as state, federal and local sewer commission regulations. RCRA Hazard Class: None																								
SECTION XIV - TRANSPORT INFORMATION Shipping Classification: Corrosive Liquid, Acidic Inorganic, N.O.S. (Containing Phosphoric Acid), Class 8 UN Number: UN3264 Packing Group: II																								
SECTION XV - PREPARATION DATA Prepared By: Mike Elms Telephone Number: 651-481-1900 Date: 4/02																								
SECTION XVI - REGULATORY INFORMATION US Federal Regulations TSCA Status: All ingredients listed. CERCLA Reportable Quality: 5,000 Pounds, Phosphoric Acid SARA Title III Section 302 Extremely Hazardous Chemicals: None Section 311/312 Hazard Category: Immediate health hazard Section 313 Toxic Chemicals: Phosphoric Acid State Regulations NOTICE STATE OF CALIFORNIA Warning: This product may contain chemicals known to the State of California to cause cancer or reproductive defects as trace impurities in the standard industrial materials used in the manufacture of this product. International Regulations WHMIS Controlled Product Hazard Class: NA																								
SECTION XVII - OTHER INFORMATION None N. Ap. - Not Applicable; N.Av. - Not Available																								

NFPA SYSTEM

2 A. Health Hazard 0 A. Fire Hazard 0 A. Reactivity Hazard

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