

# MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION						
<b>NFPA Rating:</b> Health-3; Flammability-0; Reactivity-0; Special- - <b>Manufacturer's Name:</b> RITE-KEM, INC. <b>Address:</b> 703 Westmoreland Drive Tupelo, MS 38803			<b>HMIS Rating:</b> Health-3; Flammability-0; Reactivity-0; Personal Protection-B <b>DOT Hazard Classification:</b> Corrosive Material, 8 <b>Identity</b> (trade name as used on label): <p style="text-align: center;"><b>KLING</b></p>			
<b>Date Prepared:</b> 08/27/99 <b>Prepared By:</b> ML <b>Information Calls:</b> (662)840-6060 / (800)841-5351 <b>EMERGENCY RESPONSE NUMBER:</b> 1(800)424-9300			<b>MSDS Number:</b> KLING <b>Revision:</b> - 2 NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA			
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION						
<b>COMPONENTS-CHEMICAL NAMES AND COMMON NAMES</b> (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
PHOSPHORIC ACID		7664-38-2	Yes	1mg/m3	1mg/m3	d
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS						
<b>Boiling Point:</b> 215°F			<b>Specific Gravity</b> (H <sub>2</sub> O=1): 1.06			
<b>Vapor Pressure:</b> PSIG @ 70°F (Aerosols): N/A			<b>Vapor Pressure</b> (Non-Aerosols)(mm Hg and Temperature): N/D			
<b>Vapor Density</b> (Air = 1): .88			<b>Evaporation Rate</b> (water = 1): 1.0			
<b>Solubility in Water:</b> Miscible			<b>Water Reactive:</b> No			
<b>Appearance and Odor:</b> Slightly hazy, viscous pink liquid with mint scent.						
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA						
<b>FLAMMABILITY</b> as per USA FLAME PROJECTION TEST (aerosols) N/A		<b>Auto Ignition Temperature</b> N/A		<b>Flammability Limits in Air by % in Volume:</b> % LEL: N/A      % UEL: N/A		
<b>FLASH POINT AND METHOD USED</b> (non-aerosols): Non-combustible, water based.			<b>SPECIAL FIRE FIGHTING PROCEDURES:</b> Non-combustible. Use clothing & safety equipment as may be suitable for phosphoric acid & materials in the surrounding fire.			
<b>EXTINGUISHER MEDIA:</b> Non-combustible. Use agents as appropriate for materials in surrounding fire.			<b>Unusual Fire &amp; Explosion Hazards:</b> Will liberate flammable hydrogen gas on contact with many metals. Protect personnel against mist, vapor or splashes.			
SECTION 4 - REACTIVITY HAZARD DATA						
<b>STABILITY</b> <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE			<b>HAZARDOUS POLYMERIZATION</b> <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR			
<b>Incompatibility</b> (Mat. to avoid): Bases, metals, mercuric sulfate, perchloric acid, carbides, acetylides, phosphides & silicides.			<b>Conditions to Avoid:</b> None			
<b>Hazardous Decomposition Products:</b> Phosphorus pentoxide, oxides of carbon, unidentified organic compounds.						
SECTION 5 - HEALTH HAZARD DATA						
<b>PRIMARY ROUTES OF ENTRY:</b> <input type="checkbox"/> INHALATION <input type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN ABSORPTION <input checked="" type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS						
<b>ACUTE EFFECTS:</b> Corrosive material. Severe irritant to all body tissues. Prolonged or repeated contact may damage or destroy body tissues.						
<b>Inhalation:</b> Mist & spray can cause respiratory tract irritation with burning, choking, coughing. High concentrations &/or prolonged contact can cause inflammation & destruction of nasal passages & breathing difficulties, which may be delayed in onset.						
<b>Eye Contact:</b> Liquid can cause eye irritation, severe burns & permanent damage including blindness.			<b>Skin Contact:</b> Liquid can cause burning of skin. Repeated or prolonged contact can cause irritation & dermatitis.			
<b>Ingestion:</b> Can cause severe burns of mouth, esophagus and stomach. Nausea, pain and vomiting can occur.						
<b>CHRONIC EFFECTS:</b> Repeated episodes of tissue damage may result in accumulation of scar tissue.						
<b>Medical Conditions Generally Aggravated by Exposure:</b> Contact may further irritate any pre-existing lesions.						
EMERGENCY FIRST AID PROCEDURES						
<b>Eye Contact:</b> Irrigate with large quantities of water, lifting upper and lower eyelids occasionally. Get medical attention.						
<b>Skin Contact:</b> Remove contaminated clothing & wash skin with large quantities of water. If irritation persists, get medical attention.						
<b>Inhalation:</b> Remove to fresh air. If breathing stops, give artificial respiration. Get immediate medical attention.						
<b>Ingestion:</b> DO NOT INDUCE VOMITING. Drink 3 to 4 glasses of water. Get immediate medical attention.						
SECTION 6 - CONTROL AND PROTECTIVE MEASURES						
<b>Respiratory Protection (specify type):</b> Not normally needed at ambient temperatures. Under fire conditions, use approved self-contained breathing apparatus with full face piece.						
<b>Protective Gloves:</b> Neoprene or PVC.			<b>Eye Protection:</b> Chemical goggles, face shield where splashing is possible.			
<b>Ventilation Requirements:</b> As necessary to maintain air concentrations below 1mg/m3 at all times. Special ventilation is not normally needed.						
<b>Other Protective Clothing &amp; Equipment:</b> Safety showers & eyewash stations. Neoprene or PVC rain suit & boots, if needed.						
<b>Hygienic Work Practices:</b> Avoid contact with skin. Do not eat, drink or smoke in work area. Wash hands after handling. Remove contaminated clothing.						
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE						
<b>Steps To Be Taken If Material Is Spilled Or Released:</b> Contain spill & prevent run off into ground & surface waters or sewers. Neutralize with soda ash. Recover neutralized products into properly labeled non-leaking containers for proper disposal.						
<b>Waste Disposal Methods:</b> Dispose of in accordance with all local, state and federal regulations.						
<b>Precautions To Be Taken In Handling &amp; Storage:</b> Store in original shipping containers. Keep closed when not in use. Do not store near strong alkalis or other reactive materials. Shelf life 1 year. Protect from extreme heat and cold.						
<b>Other Precautions &amp;/or Special Hazards:</b> KEEP OUT OF REACH OF CHILDREN. Read & follow label directions.						

*We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.*

\*\* Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only