

# MATERIAL SAFETY DATA SHEET

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Date Prepared: 07/05/2009

SECTION I				
<b>Product Identity (Name / Number)</b>		WASH I-K Liquid Acid Cleaner / 9641K		
<b>Chemical Family</b>		Acid Blend. Corrosive liquids, n.o.s. (contains Phosphoric and Hydrochloric acids), 8, UN1760, PGII.		
SECTION II - Hazardous Ingredients				
Hazardous Components	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Hydrochloric Acid	5ppm	5ppm		Proprietary
Phosphoric Acid	3mg/m <sup>3</sup>	3mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	Proprietary
Ethylene glycol monobutyl ether	50ppm	25ppm		Proprietary
SECTION III - Physical & Chemical Characteristics				
<b>Boiling Point</b>	Above 150°F	<b>Specific Gravity</b>	1.1	
<b>Vapor Pressure (mm Hg)</b>	N/A	<b>Melting Point</b>	N/A	
<b>pH</b>	1	<b>Evaporation Rate (Ethyl Ether=1)</b>	Less than 1	
<b>Solubility in Water</b>	Complete	<b>Appearance / Odor</b>	Clear Colorless or Amber Liquid / Pungent	
SECTION IV - Fire & Explosion Hazard Data				
<b>Flammable Limits (Explosive Limit)</b>	<b>Upper:</b>	N/A	<b>Lower:</b>	N/A
<b>Flash Point (Method Used)</b>	N/A			
<b>Extinguishing Media</b>	Material is non-flammable. Water spray may be used for surrounding fires.			
<b>Special Fire Fighting Procedures</b>	Product is not flammable, but may react with metals to liberate hydrogen gas and phosphorous compounds. Vapor is also a health hazard. Firefighters should be equipped with NIOSH approved respirators, fully enclosed, and full protective acid resistant clothing.			
<b>Unusual Fire and Explosion Hazards</b>	N/A			
SECTION V - Reactivity Data				
<b>Stability:</b>		<b>Unstable</b>	X	<b>Stable</b>
<b>Hazardous Polymerization:</b>	X	<b>Will Not Occur</b>		<b>May Occur</b>
<b>Conditions To Avoid</b>	Excessive heat			
<b>Incompatibility (Materials to Avoid)</b>	Sulfides, sulfites, strong alkalines and alkali metals. Acids react with most metals to release hydrogen gas which can form explosive mixtures with air.			
<b>Hazardous Decomposition or Byproducts</b>	Hydrogen gas and phosphorus compounds. Thermal decomposition may form carbon monoxide and carbon dioxide.			

<b>SECTION VI(a) - Health Hazard Data</b>			
<b>Inhalation</b>	Irritating and corrosive to mucous membranes. Breathing mists may cause damage to nasal and respiratory passages.		
<b>Eye</b>	Even slight contact of the liquid with eyes will result in irritation and severe burns.		
<b>Skin</b>	Product is corrosive and will cause skin burns. It may not immediately cause burning upon skin contact. Burning sensation may be delayed. Treat immediately.		
<b>Ingestion</b>	Swallowing will result in severe damage to mucous membranes.		
<b>Reported As Potential Carcinogen or Carcinogen</b>			
	<b>International Agency for Research on Cancer</b>	X	<b>Not Applicable</b>
	<b>National Toxicology Program</b>		<b>OSHA</b>
<b>SECTION VI(b) - First Aid Procedures</b>			
<b>Inhalation</b>	Remove victim to fresh air. If breathing is difficult, administer oxygen. If not breathing, perform artificial respiration. Get medical attention.		
<b>Eye</b>	Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids open. Get medical attention.		
<b>Skin</b>	Remove contaminated clothing. Wash affected area thoroughly with water for at least 15 minutes. Get medical attention.		
<b>Ingestion</b>	DO NOT induce vomiting. If conscious and alert, give large quantities of water. Follow by administering milk or 2 oz. of milk of magnesia. Get medical attention immediately.		
<b>SECTION VI(c) - Employee Protection</b>			
<b>Respiratory Protection (Utilize NIOSH approved respirators. Refer to manufacturer's protection factors and OSHA standard 1910.134 as a guideline.)</b> If TLV of hazardous ingredients is exceeded, use NIOSH approved respirator, fully enclosed.			
<b><u>SPECIAL PROTECTION INFORMATION:</u></b>			
<b>EYE</b>	Chemical splash goggles or face shield are required.		
<b>SKIN</b>	Use nitrile or neoprene impermeable gloves.		
<b>VENTILATION</b>	Provide sufficient mechanical ventilation to maintain exposure below TLV's.		
<b>SPECIAL PROTECTION</b>	Impervious clothing and boots may be worn to prevent skin contact.		
<b>SECTION VII - Special Precautions</b>			
<b>Handling and Storage</b>	Store in dry, cool area. Excessive heat may cause pressure build-up. Avoid contact with sulfides and sulfites. Do not store with strong alkalines or alkali metals. Empty container may retain product residue.		
<b>Other Precautions</b>	Addition of water releases heat which may result in boiling or splattering. Always add acid to water slowly in small amounts. Do not add water to concentrated acid.		
<b>SECTION VIII - Environmental Protection</b>			
<b>Spills / Releases</b>	Cover area with sodium (bi)carbonate; mix with water to form slurry. Scoop up and wash site with soda ash solution. Notify authorities for spills of 1,000 Lb. or more.		
<b>Waste Disposal Method</b>	Neutralize acidity with sodium carbonate. Flush down drain with large amounts of water in accordance with applicable local, state and federal regulations.		

**DISCLAIMER** The information contained herein is based upon data available to us and reflects our best professional judgement. Since it is impossible to anticipate the conditions under which our products may be used, we cannot guarantee that the recommendations will be adequate for all individuals and situations. Each user of this product should determine the suitability of the product for his particular purpose and should comply with all federal, state and local regulations. Our goal is to manufacture products with zero or minimal hazards. Our products are improved daily as up-to-date information and research is received from our suppliers to use products with less or no hazards. Please feel free to contact us for current information.