

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT & COMPANY INFORMATION			
Material Identification: MicroKleen PLC-35 Phosphoric Acid Etch & Clean			
Adsil, Inc. 1901 Mason Avenue, Suite #101 Daytona Beach, FL 32117	386-274-1382 PHONE 386-274-1798 FAX CHEMTREC: 1-800-424-9300		
SECTION 2: OSHA HAZARDOUS INGREDIENTS			
<u>C.A.S. Number</u>	<u>Wt%</u>	<u>Ingredients</u>	<u>Exposure Limits</u>
7664-38-2	40-60	Phosphoric Acid	1 mg/m ³ Ceiling (ACGIH) 3 mg/m ³ STEL (ACGIH) 1 mg/m ³ TWA (OSHA)
Not Established	1-5	Ethoxylated Alcohol Surfactant	None Established
N/A	40-60	Non-hazardous Ingredients	None Established
SECTION 3: HAZARDS IDENTIFICATION			
<p>DANGER! CORROSIVE! This product is a clear, colorless liquid with no odor.</p> <p>NFPA/HMIS Rating: Health 3, Flammability 0, Reactivity 0</p> <p>Primary Routes of Entry: Skin Contact, Eye Contact, Inhalation, Ingestion</p> <p>Effects of Overexposure:</p> <p style="margin-left: 20px;">Skin: May cause severe irritation and burns with reddening and pain. Prolonged or repeated skin contact with diluted solutions or mists may cause dermatitis.</p> <p style="margin-left: 20px;">Eyes: Liquid or mists may cause severe burns, tearing and blurred vision. Permanent damage and blindness may occur.</p> <p style="margin-left: 20px;">Inhalation: Mist and vapors may cause irritation to the eyes, mucous membrane and upper respiratory tract. High concentrations may cause severe irritation and pulmonary edema.</p> <p style="margin-left: 20px;">Ingestion: May cause gastrointestinal corrosion, abdominal pain and nausea, circulatory shock and death.</p> <p>Medical Conditions Aggravated by Exposure: Individuals with chronic respiratory, eye or skin disease may be at increased risk from exposure to this material.</p>			
SECTION 4: FIRST AID MEASURES			
Skin Contact:	Immediately flush skin thoroughly with water for at least 15 minutes. Wash area with soap and water. Remove contaminated clothing and launder before reuse. Get immediate medical attention.		
Eye Contact:	Immediately flush eyes with water for at least 15 minutes, while lifting the upper and lower lids. Get immediate medical attention.		
Inhalation:	Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, have qualified personnel administer oxygen. Get immediate medical attention.		
Ingestion:	If conscious, give 1 glass of water to dilute. Do not induce vomiting. Never give anything by mouth to a person who is unconscious or convulsing. Get immediate medical attention.		

SECTION 5: FIRE FIGHTING MEASURES**Flash Point:** None.**Unusual Fire Hazards:** At elevated temperature containers may rupture. Contact with metals may release flammable hydrogen gas. Contents are corrosive and all personal contact must be avoided.**Extinguishing Media:** This material is not combustible. Use any media suitable for the surrounding fire.**Special Procedures:** Firefighters should wear full emergency turn-out gear and NIOSH approved positive pressure, self-contained breathing apparatus. Cool exposed and intact containers with water spray.**SECTION 6: ACCIDENTAL RELEASE MEASURES****Containment/Clean-up:** In case of material release, wear appropriate protective clothing to prevent eye and skin contact. Absorb with an inert material, such as sand or vermiculite. Collect into closable containers for disposal. Small spills may be neutralized with soda ash, baking soda or other pH basic material. Do not use combustible materials, such as saw dust, to collect or absorb. Prevent spill from entering sewers and water courses. Report spill or releases as required by all governing authorities.**SECTION 7: HANDLING & STORAGE****Handling:** Prevent eye and skin contact. Do not breathe mist or aerosol. Use only with appropriate protective equipment. Empty containers may retain product residues so handle with care. Follow all MSDS precautions.**Storage:** Protect containers from physical damage. Store in cool, well ventilated area and away from basic pH and other incompatible materials.**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION****Skin Protection:** Wear rubber, nitrile or other impervious gloves when handling.**Eye Protection:** Wear chemical safety goggles, minimum, or full face shield when handling. Never wear contact lenses.**Respiratory Protection:** Wear a NIOSH dust/mist/vapor cartridge respiratory when handling; select in accordance with OSHA 1910.134 and good industrial hygiene practice.**Protective Equipment:** Full face shield with chemical respirator, impervious apron, rubber boots, rubber gloves are recommended when handling.**Personal Hygiene:** Wash hands at end of shift or at break. Launder clothing before reuse.**Engineering Controls:** Maintain good general ventilation control, equivalent to outdoors. Ensure access to an eye wash station within the immediate work area.**SECTION 9: PHYSICAL & CHEMICAL PROPERTIES****pH:** 1**Solubility in water:** Complete**Appearance:** Clear, Colorless Liquid**Odor:** No Odor**Specific Gravity:** 1.28**Boiling Point:** 212° F / 100° C**Freeze Point:** N/A**VOC Content:** N/A**SECTION 10: STABILITY & REACTIVITY****Stability:** This material is stable.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition: Phosphorous oxide. Reacts with metals to form flammable hydrogen gas.

Conditions to Avoid: Not Applicable.

Materials to Avoid: Caustics, alcohols, cyanides, combustible materials, ketones, metals, phenols, esters, sulfides and halogenated organics.

SECTION 11: TOXICOLOGICAL INFORMATION

None of the components of this product are listed as a carcinogen or suspected carcinogen.

None of its components are known to cause mutagenicity.

None of its components are known to cause sensitization in animals or humans.

None of its components are known to cause adverse reproductive effects.

SECTION 12: ECOLOGICAL INFORMATION

No data is available on this product or its components.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of waste material in accordance with all local, state and federal regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Information (49 CFR 172.101)

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC INORGANIC, n.o.s.

Hazard Technical Name: Phosphoric Acid

Hazard Class: 8

UN Number: UN3264

Packing Group: III

SECTION 15: REGULATORY INFORMATION

EPA SARA Title III Chemical Listings:

Section 302 CERCLA Extremely Hazardous Substances: None

Section 304 CERCLA Hazardous Substances: None

Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for Phosphoric Acid (60% maximum) of 5,000 lbs. is 8,333 lbs. Some States have more stringent release reporting requirements.

Section 311 Hazard Class: Acute Health

Section 313 Toxic Chemicals: None

Toxic Substances Control Act: All components of this product are listed on the TSCA Inventory.

Other U.S. State Regulations: None known.

California Proposition 65: None known.

WHMIS Classification: Class E – Corrosive

Canadian CEPA: All product components are listed on the Canadian DSL. This product has been classified under the CPR and this MSDS discloses information elements required by the CPR.

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