

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT & COMPANY INFORMATION			
Material Identification: MicroKleen AD1-103 Retarder Solvent			
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>
67-63-0	38-42%	Isopropyl Alcohol – Anhydrous	OSHA PEL: 400 ppm/500 STEL ACGIH TLV: 400 ppm/500 STEL
1569-02-4	28-32%	Propylene Glycol Monoethyl Ether	None Established
1569-01-3	28-32%	Propylene Glycol Monopropyl Ether	None Established
SECTION 3: HAZARDS IDENTIFICATION			
NFPA/HMIS Rating: Health 2, Flammability 3, Reactivity 0			
Primary Routes of Entry: Skin Contact, Eye Contact, Inhalation, Ingestion			
Effects of Overexposure:			
Skin:	No significant symptoms are expected to occur as a result of skin absorption exposure. May cause skin irritation and de-fatting action.		
Eyes:	May cause severe eye irritation.		
Inhalation:	Prolonged overexposure may cause coughing, shortness of breath, dizziness and intoxication. May result in central nervous system depression.		
Ingestion:	May be a health hazard if ingested in large quantities. Irritating to the gastrointestinal tract. May cause abdominal pain and vomiting. May cause central nervous system depression, low blood pressure and rapid heartbeat.		
Symptoms:	Burning pain in nose and throat (inhalation); pain, redness and tearing (eyes); itching or burning (skin). Central nervous system may be evidenced by giddiness, headache, dizziness and nausea. In extreme cases, unconscious, respiratory depression and death may occur. Potential liver damage may be evidenced by loss of appetite, jaundice and pain in upper abdomen on the right side.		
SECTION 4: FIRST AID MEASURES			
Skin Contact: Wash with mild soap and water. If any irritation persists, seek medical attention.			
Eye Contact: In case of eye contact, flush with water for 15 minutes. Retract eyelids often. If irritation persists, seek medical attention.			
Inhalation: If overcome by exposure, remove to fresh air immediately. Give oxygen or artificial respiration as needed. Seek medical attention if discomfort persists.			
Ingestion: Do not induce vomiting. Risk of damage to lungs exceeds poisoning risk. If large quantity is swallowed, give 1 pint of water, if conscious. Never give water to unconscious or convulsing victim. Seek medical attention immediately.			
Comments: Physician's Detoxification Procedure – administer an aqueous slurry of activated charcoal followed by a cathartic, such as magnesium citrate or sorbitol.			

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: 58.0° F / 12.8° C

Fire Hazards: Containers exposed to intense heat from fires should be cooled with water spray to prevent vapor pressure buildup, which could result in container rupture. Container areas exposed to direct flame should be cooled with large quantities of water as needed to prevent weakening of container.

Unusual Fire Hazards: Releases flammable vapors below normal ambient temperatures. Vapors may be heavier than air. May travel long distances along the ground before igniting and flashing back to vapor source. When mixed with air and exposed to ignition source, vapors can burn or explode if confined.

Extinguishing Media: Alcohol type foam; CO₂; Water Spray; Water Fog; Dry Chemical.

Fire Fighting Procedures: Protective Equipment/Clothing; do not enter fire area without proper protection. Use full turn-out gear and self-contained breathing apparatus. Fight fire from a safe distance. Blanket with firefighting foam. Use water spray/fog for cooling. Avoid frothing/steam explosion. Burning liquid may float on water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Containment/Clean-up: Extremely flammable liquid. Release causes immediate fire/explosion hazard. Liquids or vapors may ignite. Extinguish all ignition sources. Equip responders with proper protection. Contain or collect material rapidly to minimize dispersion. Impound or recover large land spill; soak up spill with inert solids material. Restrict water use for cleanup. Prevent flow into sewer or public waters. Product is inherently biodegradable.

SECTION 7: HANDLING & STORAGE

Handling: For professional use only. Handle away from heat, sparks and open flame. Extinguish all ignition sources. Use non-sparking tools. Handle empty containers with care; vapor residue may be flammable or explosive.

Storage: Store away from heat, sparks, open flame and strong oxidizing agents. Do not store in aluminum containers. Material may attack some forms of plastic, aluminum or rubber.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Skin Protection: Wear latex or nitrile gloves. Wash hands before eating, drinking, smoking or at end of shift.

Eye Protection: Wear safety goggles at minimum or full face shield to prevent eye contact due to splashing, atomizing liquid by spraying or evaporating vapor.

Respiratory Protection: Wear a NIOSH approved respirator to prevent over exposure; vapor/mist/chemical type cartridge. If exposure exceeds occupational exposure limits, wear an atmospheric supplying respirator for organic vapors in accordance with 29 CFR 1910.134.

Protective Equipment: Emergency eye wash station or eye wash bottle should be available in the immediate vicinity of any potential exposure.

Personal Hygiene: Wash hands before eating, drinking, smoking or using toilet facilities. Promptly removed contaminated clothing and laundry before reuse.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

pH: Not Applicable (non-aqueous).

Solubility in water: Complete.

Appearance: Clear Mobile Liquid

Odor: Moderate Solvent Odor

Specific Gravity @ 25° C: 0.846

Boiling Point: 180.0° F / 82.0° C

Freeze Point: Not Applicable.

SECTION 10: STABILITY & REACTIVITY

Stability: Stable.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Heat, sparks, open flame, or other ignition sources.

Materials to Avoid: Strong oxidizing agents. Do not store or handle in aluminum equipment at ambient or surface temperatures above 120° F.

SECTION 11: TOXICOLOGICAL INFORMATION

No information available.

SECTION 12: ECOLOGICAL INFORMATION

No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

In accordance with all Local, State and Federal Regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Information (49 CFR 172.101)

Proper Shipping Name: FLAMMABLE LIQUID, n.o.s.

Hazard Technical Name: CONTAINS ISOPROPYL ALCOHOL

Hazard Class: 3

UN Number: UN1993

Packing Group: II

SECTION 15: REGULATORY INFORMATION

EPA SARA Title III Chemical Listings:

Section 302 CERCLA Extremely Hazardous Substances: None.

Section 304 CERCLA Hazardous Substances: None.

Section 312 Hazard Class: Acute; Fire.

Section 313 Toxic Chemicals: None. Contains no chemical components with known C.A.S. numbers that exceed the DeMinimis reporting levels established by SARA Title III, Section 313 and 40 CFR 372.

Other U.S. State Regulations:

California Proposition 65: This product does not contain any chemicals listed by the State of California under the Safe Drinking and Toxic Enforcement Act of 1986 as being known to cause cancer or birth defects.

Massachusetts: This material contains no listed components.

New Jersey Right-to-Know List: This material contains no listed components.

Pennsylvania Right-to-Know List: This material contains no listed components.

Canadian Regulations: This product has been classified by raw material suppliers in accordance with the Hazard Criteria of the CPR and the MSDS contains all the information required by CPR.

Canadian WHMIS: None.

Canadian DSL Status: This material or its components are listed on the Canadian Domestic Substances List.

Canadian Ingredient Disclosure List: This material contains no listed components.

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Prepared by: MSDS Coordinator (386-274-1382)
Daytona Beach, Florida 32117