

# Safety Data Sheet

Issue Date: 01-Feb-2013

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Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** MicroKleen AD 103 Retarder Solvent

### Other means of identification

**SDS #** ADSIL-028  
**UN/ID No** UN1219

### Recommended use of the chemical and restrictions on use

**Recommended Use** Dilution solvent.

### Details of the supplier of the safety data sheet

#### **Supplier Address**

Adsil, Inc.  
1901 Mason Avenue, Suite #101  
Daytona Beach, FL 32117

### Emergency Telephone Number

**Company Phone Number** Phone: 800-549-2539  
Fax: 386-274-1798  
**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Colorless liquid

**Physical State** Liquid

**Odor** Strong Alcohol

### Classification

Acute toxicity - Oral  
Specific target organ toxicity (single exposure)  
Flammable Liquids

Category 4  
Category 1  
Category 4

### Signal Word

**Danger**

### Hazard Statements

Harmful if swallowed  
Causes damage to organs  
Highly flammable liquid and vapor



**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Keep container tightly closed  
 Ground/bond container and receiving equipment  
 Use explosion-proof equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge  
 Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 IF SWALLOWED: Rinse mouth.  
 IN CASE OF FIRE: Use CO<sub>2</sub>, dry chemical, or foam for extinction.

**Precautionary Statements - Storage**

Store in a cool, dry area and away from heat, sparks and open flame.  
 Store in a well-ventilated place.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

**Other Hazards**

None.

**Unknown Acute Toxicity**

None.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Isopropyl Alcohol	67-63-0	38-42%
Glycol Ether PE	52125-53-8	28-32%
Glycol Ether PNP	1569-01-3	28-32%

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST-AID MEASURES

**First Aid Measures**

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical attention.
<b>Skin Contact</b>	Wash with soap and water. Consult a doctor if skin irritation is permanent.
<b>Inhalation</b>	Remove to fresh air. Get medical attention if discomfort persists.
<b>Ingestion</b>	If swallowed, rinse mouth with water. Do not induce vomiting. Get immediate medical attention.

**Most important symptoms and effects**

<b>Symptoms</b>	May cause skin and eye irritation. Prolonged exposure in poorly ventilated area may cause respiratory irritation. Ingestion may cause abdominal pain and vomiting. Liver damage may also occur.
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**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat as isopropyl alcohol poisoning.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Carbon dioxide (CO<sub>2</sub>). Water. Foam. Dry chemical.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

Vapors are heavier than air and may spread along floors. Vapors may travel to source of ignition and flash back. Closed containers may explode due to buildup of pressure when exposed to extreme heat.

**Hazardous Combustion Products** Carbon oxides. Traces of incompletely burned carbon compounds. Formaldehyde.

**Sensitivity to Static Discharge** Sensitive to static discharge.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate area and fight fire from a safe distance.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Use personal protective equipment as required. Remove all sources of ignition.

**Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Contain and collect with an inert absorbent and place into an appropriate container for disposal. Rinse area thoroughly. Clean up in accordance with all applicable regulations. Dispose of in accordance with federal, state and local regulations.

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Advice on Safe Handling** Wash thoroughly after handling. Use personal protection recommended in Section 8. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Use spark-proof tools and explosion-proof equipment. Ground/bond container and receiving equipment. Take precautionary measures against static discharges.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from sources of ignition.

**Incompatible Materials** Strong oxidizers.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

<b>Chemical Name</b>	<b>ACGIH TLV</b>	<b>OSHA PEL</b>	<b>NIOSH IDLH</b>
Isopropyl Alcohol	STEL: 500 ppm TWA: 400 ppm	TWA: 400 ppm	IDLH: 400 ppm TWA: 400 ppm
Glycol Ether PE	STEL: 100ppm	TWA: 150ppm	STEL: 500 ppm IDLH: 150ppm
Glycol Ether PNP	STEL: 100ppm	TWA: 150ppm	TWA: 150ppm IDLH: 150ppm TWA: 150ppm

**Appropriate engineering controls****Engineering Controls**

Apply technical measures to comply with the occupational exposure limits. Eyewash stations. For in field installations, use local exhaust ventilation when using in enclosed areas. For spray booth installations, provide air-sampling data to show exposures are within recommended exposure guidelines.

**Individual protection measures, such as personal protective equipment****Eye/Face Protection**

Chemical splash goggles or face shield.

**Skin and Body Protection**

Wear appropriate clothing to prevent repeated or prolonged skin contact.

**Respiratory Protection**

In case of inadequate ventilation wear respiratory protection.

**General Hygiene Considerations**

Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

<b>Physical State</b>	Liquid	<b>Odor</b>	Strong Alcohol
<b>Appearance</b>	Colorless liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Not determined		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>	Not applicable (non-aqueous)		
<b>Melting Point/Freezing Point</b>	Not available		
<b>Boiling Point/Boiling Range</b>	82.5°C / 180.5°F		
<b>Flash Point</b>	11.7°C/53.0 °F – 12.8°C/55.0°F		
<b>Evaporation Rate</b>	Not determined		
<b>Flammability (Solid, Gas)</b>	Flammable		
<b>Upper Flammability Limits</b>	Not determined		
<b>Lower Flammability Limit</b>	Not determined		
<b>Vapor Pressure</b>	Not determined		
<b>Vapor Density</b>	Not determined		
<b>Specific Gravity</b>	0.846g/ml		
<b>Water Solubility</b>	Soluble in water		
<b>Solubility in other solvents</b>	Not determined		
<b>Partition Coefficient</b>	Not determined		
<b>Auto-ignition Temperature</b>	Not determined		
<b>Decomposition Temperature</b>	Not determined		
<b>Kinematic Viscosity</b>	Not determined		
<b>Dynamic Viscosity</b>	Not determined		
<b>Explosive Properties</b>	Not determined		
<b>Oxidizing Properties</b>	Not determined		
<b>VOC Content</b>	780.0 g/L		

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

Methanol forms when exposed to water or humid air.

**Hazardous Polymerization**      Hazardous polymerization will not occur.

### Conditions to Avoid

Keep out of reach of children.

### Incompatible Materials

Strong oxidizers.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Eye Contact</b>	Avoid contact with eyes.
<b>Skin Contact</b>	Avoid contact with skin.
<b>Inhalation</b>	Avoid breathing vapors or mists.
<b>Ingestion</b>	Harmful if swallowed.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl Alcohol	3600 mg/kg (Mouse)	12800 mg/kg (Rabbit)	16000ppm (8 hrs Rat)
Glycol Ether PE	39000 mg/kg (Rat)	20000 mg/kg (Rabbit)	No Data
Glycol Ether PNP	5710 mg/kg (Rat)	12930 mg/kg (Rat)	16300ppm (4 hrs Rat)

### Information on physical, chemical and toxicological effects

**Symptoms**      Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Carcinogenicity</b>	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
<b>STOT - single exposure</b>	None.

### Numerical measures of toxicity

Not determined

**Unknown Acute Toxicity**      None.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Not considered immediately toxic to aquatic life.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Isopropyl Alcohol	No Data	28200: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static 19500 - 20700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 18 - 20: 96 h Oncorhynchus mykiss mL/L LC50 static 13500 - 17600: 96 h Lepomis macrochirus mg/L LC50 flow-through	No Data	No Data

### Persistence/Degradability

Not readily biodegradable.

### Bioaccumulation

Not determined.

### Mobility

Chemical Name	Partition Coefficient
N/A	N/A

### Other Adverse Effects

Not determined

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

<b>Disposal of Wastes</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated Packaging</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.

### US EPA Waste Number

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
N/A			No Data	

### California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
N/A	N/A

## 14. TRANSPORT INFORMATION

### Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

UN/ID No	UN1219
Proper Shipping Name	Coating solution
Hazard Class	3
Packing Group	II

**IATA**

UN/ID No	UN1219
Proper Shipping Name	Coating solution
Hazard Class	3
Packing Group	II

**IMDG**

UN/ID No	UN1219
Proper Shipping Name	Coating solution
Hazard Class	3
Packing Group	II
Marine Pollutant	This material may meet the definition of a marine pollutant

## 15. REGULATORY INFORMATION

**International Inventories**

<b>TSCA</b>	All ingredients are listed or exempt from listing on Chemical Substance Inventory
<b>DSL</b>	Listed

**Legend:**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*  
*DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List*  
*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*  
*ENCS - Japan Existing and New Chemical Substances*  
*IECSC - China Inventory of Existing Chemical Substances*  
*KECL - Korean Existing and Evaluated Chemical Substances*  
*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

**US Federal Regulations****CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
N/A		N/A	

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	Yes
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values % Fire Hazard/Acute Health Hazard
Isopropyl Alcohol	67-63-0	36.0%	

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals.

**Chemical Name**  
Isopropyl Alcohol

**California Proposition 65**  
N/A

**U.S. State Right-to-Know Regulations**

**Chemical Name**  
N/A

**New Jersey**  
N/A

**Massachusetts**  
N/A

**Pennsylvania**  
N/A

<b>16. OTHER INFORMATION</b>
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**NFPA****Health Hazards**

2

**Flammability**

3

**Instability**

0

**Special Hazards**

Not determined

**HMIS****Health Hazards**

2

**Flammability**

3

**Physical Hazards**

0

**Personal Protection**

Not determined

**Issue Date:** 20-Feb-2013  
**Revision Date:** New  
**Revision Note:** New format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**