

Safety Data Sheet

Issue Date: 01-Feb-2013

Revision Date: 07-May-2014

Version 1

1. IDENTIFICATION

Product Identifier

Product Name MicroKleen PLC-1 Cleaner and Degreaser

Other means of identification

SDS # ADSIL-020
UN/ID No UN1760

Recommended use of the chemical and restrictions on use

Recommended Use Industrial Cleaning

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 Clear Pale Yellow Liquid

Physical State Liquid

Odor Mild

Classification

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

Category 2
Category 0
Category 0

Signal Word

Danger

Hazard Statements

Harmful if swallowed
Corrosive



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF ON SKIN (or hair): Wash with soap and water. Rinse with water. Seek medical attention if irritation persists.

IF SWALLOWED: Dilute with one glass of water. DO NOT induce vomiting. Seek medical attention.

Precautionary Statements - Storage

None.

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-%
MonoEthanolamine	141-43-5	<2.0
Glycol Ether EB	111-76-2	9-10
Sodium MetaSilicate	6834-92-0	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

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

Most important symptoms and effects

Symptoms	May cause skin and eye 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.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Not determined.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Not determined.

Hazardous Combustion Products None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

None Required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment as required.

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.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Materials Strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
MonoEthanolamine	TWA: 3 ppm	TWA: 3 ppm	
Glycol Ether EB	TWA: 20ppm	TWA: 50ppm	
Sodium MetaSilicate	STEL: 100ppm	TWA: 150ppm	

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits. Eyewash stations.

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 airborne mist or spray, 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

Physical State	Liquid	Odor	Mild Detergent
Appearance	Colorless Pale Yellow Liquid	Odor Threshold	Not determined
Color	Not determined		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	12.5	
Melting Point/Freezing Point	32.0°F	
Boiling Point/Boiling Range	100.0°C / 212.0°F	
Flash Point	Not determined	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	No	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Specific Gravity	0.998g/ml	
Water Solubility	Soluble in water	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	
VOC Content	16.0 g/L	

10. STABILITY AND REACTIVITY

Reactivity

Non reactive.

Chemical Stability

Stable.

Possibility of Hazardous Reactions

None.

Hazardous Polymerization Hazardous polymerization will not occur.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

Strong Acids.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

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

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
MonoEthanolamine	1720 mg/kg (Rat)	1000 mg/kg (Rabbit)	none
Glycol Ether EB	1746 mg/kg (Rat)	2000 mg/kg (Rabbit)	2.0 mg/L (7 hrs Dog)
Sodium MetaSilicate	1152 mg/kg (Rat)	5000 mg/kg (Rat)	2.06 g/cm ³ (Rat)

Information on physical, chemical and toxicological effects

Symptoms	Please see section 4 of this SDS for symptoms.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

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

Numerical measures of toxicity

Not determined

Unknown Acute Toxicity	None.
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12. ECOLOGICAL INFORMATION**Ecotoxicity**

Not considered immediately toxic to aquatic life.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Glycol Ether EB	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
N/A

Partition Coefficient
N/A

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods**

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	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	UN1760
Proper Shipping Name	Cleaning solution
Hazard Class	8
Packing Group	III

IATA

UN/ID No	UN1760
Proper Shipping Name	Cleaning solution
Hazard Class	8
Packing Group	III

IMDG

UN/ID No	UN1760
Proper Shipping Name	Cleaning solution
Hazard Class	8
Packing Group	III
Marine Pollutant	This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION**International Inventories**

TSCA All ingredients are listed or exempt from listing on Chemical Substance Inventory

DSL 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

Acute Health Hazard	No
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
None	None	None	None

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
None	N/A

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
N/A	N/A	N/A	N/A

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	2	0	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2		0	Not determined

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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