

# Safety Data Sheet

Issue Date: 01-Feb-2013

Revision Date: 07-July-2020

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

May be corrosive to metals  
Harmful if swallowed  
Causes skin irritation. Causes severe skin burns and eye damage  
Causes serious eye irritation  
May cause respiratory irritation  
May cause drowsiness or dizziness



**Precautionary Statements - Prevention**

Avoid breathing dust, fume, gas, mist, spray, vapors  
 Wash skin thoroughly after handling  
 Wear eye protection, face protection, protective clothing, protective gloves

**Precautionary Statements - Response**

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 Take off contaminated clothing and wash it before reuse.  
 If skin irritation occurs: Get medical advice/attention.  
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 IF in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 IF eye irritation persists: Get medical advice/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	0.3-0.6

\*\*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. 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**

<b>Notes to Physician</b>	Treat as isopropyl alcohol poisoning.
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## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Carbon Dioxide, Dry Chemical, Foam, Water Fog

**Unsuitable Extinguishing Media** Not determined.

### Specific Hazards Arising from the Chemical

Vapors can travel to a source of ignition and flash back. Do not reuse container without commercial cleaning or reconditioning.

**Hazardous Combustion Products: Carbon Monoxide may be produced. Carbon Dioxide may be produced.**

**Sensitivity to Static Discharge** Keep away from sparks and static electricity.

### Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus pressure demand (MSHA/NIOSH) approved or equivalent and full protective gear. Water spray to cool containers or protect personnel. Water runoff can cause environmental damage. Dike and collect water Used to fight fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

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

### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Do not touch or walk through spilled material. Avoid runoff into storm sewers or ditches which lead to waterways.

**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** Use in well ventilated areas. Avoid breathing vapors, fume or mist. Avoid contact with eyes, skin or clothing. 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. Keep away from heat, spark and flames. Protect from direct sunlight.

**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 (ANSI Z87.1 or equivalent)

**Skin and Body Protection** Wear impervious gloves and appropriate clothing to prevent any contact, repeated or prolonged skin contact. Wear protective gear as needed – apron, suits, boots.

**Respiratory Protection** In case of airborne mist or spray, wear respiratory protection that meets OSHA 1910.134 and ANSI Z88.2 requirements.

**General Hygiene Considerations** Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse. Do not eat, drink or smoke in areas where this product is used.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Physical State</b>	Liquid	<b>Odor</b>	Mild Detergent
<b>Appearance</b>	Colorless Pale Yellow Liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Not determined		

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>
<b>pH</b>	12.5	
<b>Melting Point/Freezing Point</b>	32.0°F	
<b>Boiling Point/Boiling Range</b>	100.0°C / 212.0°F	
<b>Flash Point</b>	Not determined	
<b>Evaporation Rate</b>	Not determined	
<b>Flammability (Solid, Gas)</b>	No	
<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>	0.998g/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>	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. Avoid contact with acids, ammonia, strong oxidizing agents, amines, metals and bases.

**Incompatible Materials**

Avoid contact with acids, ammonia, strong oxidizing agents, amines, metals and bases.

**Hazardous Decomposition Products**

During combustion carbon monoxide or carbon dioxide may be formed. May form peroxides of unknown stability.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

<b>Eye Contact</b>	Avoid contact with eyes. Causes serious irritation to eyes. Exposure to eyes may cause burns to eyelids, conjunctivitis, corneal edema, corneal burn and damage to the internal content of the eye.
<b>Skin Contact</b>	Avoid contact with skin. Causes skin: irritation, redness, burning, swelling, blister formation, first degree burns, second degree burns, and third degree burns.
<b>Inhalation</b>	Avoid breathing vapors or mists. Vapors can cause irritation of the respiratory tract, headache, nausea, weakness, lightheadedness, and stupor (CNS depression).
<b>Ingestion</b>	Harmful if swallowed. Exposure by ingestion may cause irritation, swelling, perforation of upper and lower gastrointestinal tissues, weakness, confusion, anxiety, decreased blood pressure, and CNS depression with collapse and coma. Overexposure may damage central nervous system, lungs, liver and kidneys.

**Component Information**

<b>Chemical Name</b>	<b>Oral LD50</b>	<b>Dermal LD50</b>	<b>Inhalation LC50</b>
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 <sup>3</sup> (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**

**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.

**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	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 UN1760  
 Proper Shipping Name Corrosive Liquid  
 Hazard Class 8  
 Packing Group III

**IATA**

UN/ID No UN1760  
 Proper Shipping Name Corrosive Liquid  
 Hazard Class 8  
 Packing Group III

**IMDG**

UN/ID No UN1760  
 Proper Shipping Name Corrosive Liquid  
 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
2-butoxyethanol	111-76-2
1,2 ethanediol	107-21-1
1-butanol	71-36-3

**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

<b>16. OTHER INFORMATION</b>
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<b>NFPA</b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	2	0	0	Not determined
<b>HMIS</b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical Hazards</b>	<b>Personal Protection</b>
	2	0	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**