

Material Safety Data Sheet

AERO KLEEN Environmentally Preferred Aviation Solvent

Rev. 06/06/2007

Section I: Product Identification

Product name: AERO KLEEN
Molecular Formula: Proprietary Blend

The “Plain English” Section

Material Safety Data Sheets can be confusing. Federal law requires us to print a great deal of technical information, which probably won't help the non-scientist. ECOLINK includes this “PLAIN ENGLISH” section, written to address the questions and concerns of the average person. If you have additional health, safety or product questions, don't hesitate to call us at 800/886-8240.

Health Hazards: AERO KLEEN is an industrial chemical. We call it “environmentally preferred” because it is intended to replace products that are more hazardous, (1,1,1 trichloroethane, mineral spirits, MEK, etc.). This does not mean that AERO KLEEN is completely harmless. It is strong enough to remove tough industrial soils, so it can irritate your skin. We suggest you wear gloves and avoid extended exposure to unprotected skin. Don't get it in your eyes, or breath large amounts of the vapor, (it will dry out your nasal passages). Used on a rag or from a spray bottle, the product won't produce fumes in any great quantity, (don't spray AERO KLEEN under high pressure without adequate ventilation). For more exposure and first aid information, refer to MSDS Sections II, VI.

Flash Point: AERO KLEEN's flash point is 216° F. This represents the temperature that the liquid must reach before it emits fumes that will ignite. This is hot, so combustion in ordinary use isn't a big concern. If AERO KLEEN is used on rags, there is a slight possibility that the rags can ignite if exposed to an open flame because the solvent is “wicked” onto the cloth. Be sure to dispose of rags in an airtight safety container specifically designed for solvent disposal. Don't use AERO KLEEN or any other combustible solvent around welding or any other hot work area.

Disposal: Because AERO KLEEN'S flash point is above 200°F and it is not “listed” as a specific hazard by EPA, AERO KLEEN is not considered a hazardous waste product. If you spill AERO KLEEN, notify the proper environmental or safety department at your company ASAP. Once AERO KLEEN is contaminated with whatever you are cleaning, the resulting mixture may fall under a hazardous classification, if the material you are cleaning is hazardous. If you are not sure how to dispose of the used AERO KLEEN, give us a call and we will help you make the right decision.

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770/621-8240 (9–5 EST)

FOR CHEMICAL EMERGENCY
Call INFOTRAC
800/535-5053 (24 HOURS)

Section II: Chemical or Hazardous Components

Chemical Name	Dimethyl Glutarate
CAS No.	1119-40-0
Approx. wt. %	55-75%
Exposure	**

Chemical Name	Dimethyl Succinate
CAS No.	106-65-0
Approx. wt. %	15-35%
Exposure	**

Chemical Name	Dimethyl Adipate
CAS No.	627-93-0
Approx. wt. %	5-25%
Exposure	**

** Ecolink suggests an exposure limit of 10 mg/m³ (1.5 ppm) per 8 hour TWA based upon the ACGIH recommendation for components of the same chemical family.

ALL MATERIALS IN PRODUCT ARE TSCA LISTED

RCRA REGULATED:	No
CERCLA (superfund):	N/A
<u>(Containers less than 110 gallons):</u>	
DOT Regulated:	No
DOT Haz. Class:	N/A
DOT Shipping Name:	N/A
DOT Number:	Not Listed

(Questions concerning DOT information refer to DOT manual CFR 49, chapter 1, 10/96 edition)

Section III: Physical Data

Appearance & Odor:	Colorless, sweet liquid
Specific Gravity:	1.092 @ 20° C
Boiling Point:	196-226° C
Evaporation Rate (nBuAc=1):	<0.1
Solubility in Water:	5.5% (wt.) @ 20° C
Vapor Pressure (mm Hg.):	0.2 @ 20° C
Vapor Density (AIR=1):	<1

Section IV: Fire and Explosion Hazard Data

Flash Point (Method):

Bulk Liquid (TCC) 216° F

Flammable Limits:

LEL 0.9
UEL 8.0

Autoignition Temperature (minimum temperature required to initiate self-sustained combustion in the absence of a spark or flame): 370° C

Extinguishing Media:

Alcohol foam, water (flood with water), carbon dioxide.

Special Fire Fighting Procedures:

Keep fire exposed containers cool with water. Fire fighters should wear self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode with appropriate gear and chemical resistant personal protective equipment.

Unusual Fire & Explosion Hazards:

None known.

Section V: Reactivity Data

Stability:

Stable under normal conditions of storage and handling.

Conditions to Avoid:

Elevated temperatures; decomposes with heat. Sources of ignition such as sparks, hot spots, welding, flames.

Incompatibility (Materials to Avoid):

Strong oxidants, acids and alkalis.

Hazardous Decomposition:

Carbon Monoxide upon burning.

Hazardous Polymerization:

Will not occur.

Section VI: Health Hazard Data

Primary Routes of Exposure:

Oral, inhalation, & skin

Ingestion:

Swallowing large amounts may be harmful by causing gastrointestinal irritation.

Inhalation:

Breathing large amounts may be harmful by causing blurred vision, nose, throat, and respiratory tract irritation.

Eyes:

Irritant. Liquid contact will irritate eyes and may cause stinging, tearing and redness. Wear chemical goggles and have eye flushing equipment available.

Skin or Contact:

May cause irritation or redness and burning, and may defat skin.

Carcinogen:

NTP – Not Listed
IARC Monographs – None
OSHA – Not Regulated

First Aid:

Ingestion:

Do not induce vomiting. If conscious, give 1 or 2 glasses of water. Seek medical attention immediately. Place individual on left side with head down. Caution: Aspiration into lungs can cause chemical pneumonia.

Note to physicians: Activated charcoal mixture may be beneficial. Suspend 50g activated charcoal in 400 ml water and mix well. Administer 5 ml/kg, or 350 ml for an average adult.

Inhalation:

Remove to fresh air. If breathing is difficult, give oxygen. Keep person warm and quiet. Seek medical attention.

Eyes:

Irrigate immediately with water for at least 15 minutes. Get medical attention if irritation persists.

Skin:

Wash with soap and water. Thoroughly clean contaminated clothing and shoes before re-use. If symptoms persist, seek medical attention.

Section VII: Precautions for Safe Handling

HMIS Information:

Health – 1 / Reactivity – 0
Flammability – 1 Personal Protection – B

HMIS Definition:

0 – Minimal, 1 – Slight, 2 – Moderate, 3 – Serious, 4 – Extreme

"/" in the Health Category denotes material does not target any major organs.

**" in the Health Category denotes material may target certain major organs.

Eye Protection:

Safety glasses and splash protection suggested.

Protective Gloves:

Butyl rubber gloves.

Other Protective Clothing: None required under normal use.

Respiratory Protection:

Not required under conditions of normal use. If vapor mist is present, use NIOSH certified organic vapor mask. Programs must comply with 29 CFR 1910-134.

Ventilation: Local exhaust/hood or fan suggested.

Work Practices: Store rags used with this material in an airtight metal container. Treat this chemical with respect and follow all MSDS instructions.

Section VIII: Control Measures

Small Spill: Absorb liquid on vermiculite, floor absorbent, or other absorbent material and transfer to hood.

Large Spill: Eliminate all ignition sources, (flares, flames including pilot lights, electrical sparks). People not wearing protective equipment should be excluded from area of spill until clean up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams, etc. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Transfer contaminated absorbent, soil and other materials to containers for disposal.

Waste Disposal Method: AERO KLEEN liquid is to be disposed of by incineration or recycle in accordance with local, state and federal regulations. Please call us if you need additional disposal information.

Under RCRA, (40 CFR 261) in its purchased form, this material is not considered a hazardous waste.

Precautions To Be Taken In Handling & Storing:

Since empty containers retain product residues, all hazard precautions given in the data sheet must be observed. All metal pails or drums should be grounded and/or bonded when material is transferred. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperatures may result in ignition.

Other Precautions: Keep this and all chemicals out of the reach of children.

Section IX: Part Number & Packaging

<u>Product Name</u>	<u>Part No.</u>	<u>Packaging</u>	<u>National Stock No.</u>
Aero Kleen	1161-55	55 Gal Drum	6850-01-442-0755
Aero Kleen	1161-5	5 Gal Pail	6850-01-442-0769
Aero Kleen	1161-1	4 x 1 Gal Case	
Aero Kleen	1161-16	16 x 1 Qt Case	6850-01-442-0527
Aero Kleen	1161-12	12 x 1 Qt Case	6850-01-442-0530

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END OF MSDS