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## Material Safety Data Sheet

### 1. PRODUCT IDENTIFICATION

**Product Name:** AV-8® Aircraft Soap  
**Product Type:** Concentrated Aircraft Cleaner  
Patent # 7,271,136  
**Product Trade Name:** 88855

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH; TLV-TWA	OSHA PEL
ETHOXYLATED C9-C11 ALCOHOLS 68439-46-3	10-20	NA	NA
ETHOXYLATED ALCOHOL 68439-45-2	5-10	NA	NA
CAPRAMIDE DEA 136-26-5	1-5	NA	NA
D-GLUCOSE, DECYL, OCTYL ETHERS 68515-73-1	1-5	NA	NA
METHYL OLEATE 112-62-9	1-5	NA	NA

### 3. HAZARDS IDENTIFICATION

**Effects of Acute Exposure:** May cause eye and skin irritation  
High concentrations of vapor or mist may be harmful or irritating if inhaled.

**Primary Routes of Entry:** Eye and skin contact, inhalation

**Signs and Symptoms of Exposure:** Overexposure may cause eye and skin redness Eye irritation may be severe and result in injury May cause inflammation of mucous membranes and irritation Ingestion may cause nausea and vomiting

**Medical Conditions Recognized as Being Aggravated by Exposure:** None known. Preexisting eye, skin and respiratory disorders may be aggravated by overexposure to this product.

**Chronic Health Hazard Comments:** None known  
The health effects listed apply to AV-8® Aircraft Soap in its concentrated state. This product, when used according to its recommended dilution of 1 part product with 9 parts water, is significantly reduced in concentration and is expected to be milder and less irritating upon exposure.

### 4. FIRST AID MEASURES

**Eye Contact:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Contact a physician if irritation persists.

**Skin Contact:** Immediately remove contaminated clothing and excess contaminant. Flush with water for at least 15 minutes. Wash thoroughly with soap and water. Consult a physician if irritation develops

**Ingestion:** If swallowed, DO NOT induce vomiting. Give victim water, call a physician immediately. Never give anything by mouth to an unconscious person

**Inhalation:** Move to fresh air; get medical attention if symptoms persist

**Product Name:** AV-8® Aircraft Soap

**Notes to Physician:** Treat symptomatically

**5. FIRE FIGHTING MEASURES**

<b>Flash Point °F(C°):</b>	>200°F/>93.3°C TCC
<b>Recommended Extinguishing Media:</b>	Alcohol foam, Carbon dioxide, Dry chemical
<b>Special Fire-Fighting Procedures:</b>	Wear suitable protective equipment. Use water spray to cool exposed containers.
<b>Hazardous Products of Combustion:</b>	Oxides of carbon, Oxides of nitrogen
<b>Unusual Fire/Explosion Hazards:</b>	Does not sustain combustion (ASTM D4206).
<b>Sensitivity to Static Discharge:</b>	Sensitivity to static discharge is not expected
<b>Mechanical Sensitivity:</b>	None reasonably foreseeable
<b>Lower Explosive Limit:</b>	Not determined
<b>Upper Explosive Limit:</b>	Not determined

**6. ACCIDENTAL RELEASE MEASURES**

Spills may cause slippery floors. Prevent spill from entering drainage/sewer systems, waterways and surface water. Notify local health authorities and other appropriate agencies if such contamination occurs.

**7. HANDLING AND STORAGE**

Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Store below 100°F. Do not allow freezing.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Eyes:</b>	Safety glasses
<b>Skin:</b>	Chemical resistant gloves
<b>Ventilation:</b>	Use only in well ventilated area.
<b>Respiratory Protection:</b>	Not required under normal use

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Amber liquid	<b>Odor:</b>	Mild
<b>Boiling Point:</b>	~212°F/~100°C	<b>Freezing Point:</b>	~32°F/ ~0°C
<b>pH:</b>	~9.4	<b>Solubility in Water:</b>	Completely soluble
<b>Specific Gravity:</b>	~1.006 g/ml	<b>Vapor Pressure:</b>	~1.9 mm Hg (68°F/20°C)
<b>Vapor Density (Air=1):</b>	>1	<b>% Volatile:</b>	~76
<b>VOC(Wt.%):</b>	<3% by wieght, <30 g/l	<b>Evaporation Rate:</b>	<1 (butyl acetate = 1)

**10. STABILITY AND REACTIVITY**

<b>Chemical Stability:</b>	Stable
<b>Hazardous Polymerization:</b>	Will not occur
<b>Incompatibilities:</b>	Strong oxidizers
<b>Hazardous Products of Combustion:</b>	Oxides of carbon, Oxides of nitrogen

**11. TOXICOLOGICAL INFORMATION**

**Product Toxicity**

<b>Eyes:</b> Similar product: Draize Test 37.0/110 (Rabbit) Severe reversible eye irritation	<b>Skin:</b> Similar Product: LD50 >5,000 mg/kg (Rat) Draize Test 3.3/10 (Rabbit) Moderate reversible irritation	<b>Inhalation LC50:</b> No data available	<b>Oral LD50:</b> Similar Product: LD50 >2,000 mg/kg (Rat)
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**12. ECOLOGICAL INFORMATION**

96 hour fathead minnow aquatic toxicity- 100% survival rate at 1ppm; 98% at 10 ppm.  
48 hour cladoceran aquatic toxicity- 100% survival at 1 ppm; 90% at 10 ppm.

Product was tested for biodegradability according to 40CFR 796.3100 shake flask method, and was found to be 88.9% biodegradable in 28 days- considered "ready biodegradability".

**13. DISPOSAL CONSIDERATIONS**

Disposal should be made in accordance with federal, state and local regulations.

**Product Name:** AV-8® Aircraft Soap

#### 14. TRANSPORTATION INFORMATION

##### Ground Transport (DOT)

**DOT Shipping Name:** Not Regulated  
**Hazard Class:** None  
**UN/ID Number:** None

##### TDG(Transport of Dangerous Goods) Canada

**Proper Shipping Name:** Not Regulated  
**Hazard Class:** None  
**UN/ID No:** None

#### 15. REGULATORY INFORMATION

**SARA 302 Extremely Hazardous Substances:** None  
**SARA 313 Toxic Chemicals:** None  
**SARA (311, 312) Hazard Class:** Acute health hazard

**TSCA Inventory Status:** All components of this product are listed (or exempt) on the EPA TSCA inventory.

**California Proposition 65:** No California Prop 65 chemicals are known to be present.

**WHMIS Hazard Class:** D2B TOXIC MATERIALS - IRRITANT

#### 16. OTHER INFORMATION

HEALTH 2, FLAMMABILITY 0, PHYSICAL HAZARD 0, PERSONAL PROTECTION B  
HMIS is a registered trademark of the National Paint and Coatings Assn.

**Estimated NFPA Rating:**  
HEALTH 2, FLAMMABILITY 0, REACTIVITY 0  
NFPA is a registered trademark of the National Fire Protection Assn.

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