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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

Item Number: 88875

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
METHYL OLEATE 112-62-9	1-5	NA	NA
D-GLUCOSE, DECYL, OCTYL ETHERS 68515-73-1	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: Eyes, Skin, 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 above apply to this product in its concentrated state. When it is used according to the recommended dilution guide found on the product label, it is significantly milder and less irritating than the concentrate 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: In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and laundry before reuse.

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 in case of accidental inhalation of vapours. If symptoms persist, call a physician.

Product Name: AV-8® Aircraft Soap

Notes to Physician: Treat symptomatically

5. FIRE FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

Prevent from entering waterways or sewers. Contact the proper local authorities. Clean up spills thoroughly as residue is slippery.

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 freeze.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

9. PHYSICAL AND CHEMICAL PROPERTIES

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

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Product Toxicity

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

14. TRANSPORTATION INFORMATION

Ground Transport (DOT)

Product Name: AV-8® Aircraft Soap

14. TRANSPORTATION INFORMATION

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

Estimated HMIS Classification:
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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Revision Date: February 11, 2010
Formula Index: 04

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