

MATERIAL SAFETY DATA SHEET

SECTION I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name AV-8® Aircraft Soap (U.S. Patent 7,271,136)	Product Use: concentrated aircraft cleaner	Formula Index: 02
Manufacturer and US Supplier's Name Spray Nine Corporation	Canadian Supplier's Name ITW Permatex Canada	
Address (Number, Street, City, State, and ZIP Code) 251 N. Comrie Avenue Johnstown, NY 12095	Address (Number, Street, City, State, and ZIP Code) 8450 Lawson Road, Unit 1 Milton, Ontario L9T 0J8	
Emergency Telephone Number 1-800-477-7299 ChemTel 1-800-255-3924 Telephone Number for Information 518-762-4591 or Fax # 518-762-2566	Emergency Telephone Number ChemTel 1-800-255-3924	
Signature of Preparer(optional) Claudia E. Britton	Date Prepared August 1, 2008	

HMIS Rating: HEALTH- 2 FLAMMABILITY- 0 REACTIVITY- 0 PERSONAL PROTECTION- B

NFPA Rating: HEALTH- 2 FLAMMABILITY- 0 REACTIVITY- 0

WHMIS Rating: D2B-IRRITANT

SECTION II. HAZARDOUS INGREDIENT INFORMATION (Per 29 CFR 1910.1200)

Component	CAS Registry #	wt. %	Exposure Limits	
			ACGIH TLV	OSHA PEL
Ethoxylated C9-C11 alcohols	68439-46-3	10-15	Not Est.	Not Est.
Capramide diethanolamine	136-26-5	5-10	Not Est.	Not Est.
D-Glucose, decyl, octyl ethers	68515-73-1	1-5	Not Est.	Not Est.
C8-C10 Ethoxylated alcohol	68439-45-2	5-10	Not Est.	Not Est.
Oleic acid, methyl ester	112-62-9	1-5	Not Est.	Not Est.

SECTION III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear, viscous, amber liquid with a mild clean odor. Concentrated product may cause severe eye irritation. Tissue damage may occur. Prolonged or repeated use of concentrated product may cause redness and irritation of skin. Vapor or mist of concentrated product may cause irritation. Ingestion of concentrated product may cause nausea, vomiting, diarrhea and irritation of the digestive tract.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: Concentrated product may cause severe irritation. Tissue damage may occur.

SKIN CONTACT: Prolonged or repeated use of concentrated product may cause redness and irritation.

INHALATION: Vapor or mist of concentrated product may cause irritation.

INGESTION: Concentrated product may cause nausea, vomiting, diarrhea and irritation of the digestive tract.

MEDICAL CONDITION AGGRAVATED BY EXPOSURE: None known. Persons with pre-existing medical conditions or sensitivity may be more susceptible to the effects of exposure.

CHRONIC EFFECTS: None known.

NOTE: The health effects listed above apply to AV-8™ in its concentrated state. The product, when used according to its recommended dilution of 1 part product with 9 parts water is significantly reduced in concentration and is, therefore, expected to be milder and less irritating upon exposure.

SECTION IV. FIRST AID MEASURES

EYE CONTACT: Flush with water for 15 minutes. If contact lenses are worn, remove immediately as they may contribute to the severity of the injury. Contact physician

SKIN CONTACT: Flush with water for 15 minutes. Contact physician if irritation persists.

INHALATION: If breathing is difficult, remove to fresh air. If symptoms persist, contact physician immediately.

INGESTION: Do not induce vomiting. Drink plenty of water. Contact physician immediately.

NOTE TO PHYSICIAN: Treat patient symptomatically.

SECTION V. FIRE FIGHTING MEASURES**FLAMMABLE PROPERTIES:**

FLASH POINT: None

METHOD USED: Closed cup method

FLAMMABLE LIMITS

LFL: Not Established

UFL: Not Established

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical or water spray.**FIRE & EXPLOSION HAZARDS:** None known. Product was tested according to ASTM D 4206 and did not sustain combustion.**FIRE FIGHTING INSTRUCTIONS:** Wear respiratory protection and protective clothing. Water may be used to cool fire exposed containers.**FIRE FIGHTING EQUIPMENT:** None known.**SENSITIVITY TO MECHANICAL IMPACT:** No sensitivity known.**SENSITIVITY TO STATIC DISCHARGE:** No sensitivity known.**SECTION VI. ACCIDENTAL RELEASE MEASURES**

Wear suitable protective clothing. Where possible, salvage for use or absorb with suitable material and collect for disposal. Thoroughly rinse area with water.

CAUTION: Spill area may be slippery. For large spills, dike area to prevent spreading and contact appropriate environmental agency.**SECTION VII. HANDLING AND STORAGE**

Store in a cool, dry, well ventilated area. Keep out of reach of children.

SECTION VIII. PERSONAL PROTECTION / EXPOSURE CONTROLS**EYE PROTECTION:** The use of safety glasses is recommended.**SKIN PROTECTION:** The use of chemical resistant gloves is recommended for prolonged use.**RESPIRATORY PROTECTION:** Not required under normal conditions of use.**ENGINEERING CONTROLS:** None known.**EXPOSURE GUIDELINE (S):** Use only in a well ventilated area.**SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE:	Clear, amber	PHYSICAL STATE:	Viscous liquid
BOILING POINT:	~212°F/~100°C	SOLUBILITY IN WATER:	Dilutable
EVAPORATION RATE:	<1	SPECIFIC GRAVITY:	~1.008 g/ml
FREEZING POINT:	~32°F/~0°C	VAPOR DENSITY:	Not Applicable
MELTING POINT:	Not Applicable	VAPOR PRESSURE (68°F/20°C):	~0.52 PSI (26.9 mm Hg)
MOLECULAR WEIGHT:	Not Applicable	VAPOR PRESSURE (100°F/38°C):	~2.10 PSI (108.4 mm Hg)
ODOR:	Mild, clean	VISCOSITY:	~400
pH (neat):	~9.4	% NON-VOLATILE:	~24
pH (10% solution):	~9.0	VOLATILE ORGANIC CONTENT (VOC):	<30 g/l (estm)

SECTION X. STABILITY AND REACTIVITY**CHEMICAL STABILITY:** Stable**INCOMPATIBILITY:** Strong oxidizing agents.**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide and nitrogen oxides**HAZARDOUS POLYMERIZATION:** Will not occur.**SECTION XI. TOXICOLOGICAL INFORMATION****EYE:** A similar product to AV-8 concentrate caused severe reversible eye irritation in rabbits with a score of 37.0/110 which cleared in all animals by day 10 of the test.**SKIN:** Dermal LD50 for a similar product to AV-8 concentrate in female rats is >5,000 mg/kg body weight.

Similar product caused moderate reversible irritation in rabbits with a score of 3.3/10 which cleared in all animals by day 14 of the test.

INHALATION: Not Available**INGESTION:** Oral LD50 for a similar product to AV-8 concentrate in female rats is >2,000 mg/kg of body weight.**SUBCHRONIC:** Not Available**CHRONIC / CARCINOGENICITY:** Not available. Contains no known carcinogens.

TERATOLOGY: Not Available
REPRODUCTION: Not Available
MUTAGENICITY: Not Available
SENSITIZATION: Not Available

SECTION XII. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Similar product-

96 hour fathead minnow aquatic toxicity - 100% survival @ 1ppm; 98% survival @ 10ppm.

48 hour cladoceran aquatic toxicity - 100% survival @ 1ppm; 90% survival @ 10ppm.

DISTRIBUTION: Not Available

CHEMICAL FATE INFORMATION: A similar product was tested for biodegradability in accordance with 40 CFR 796.3100 shake flask method, monitored by analysis of Total Organic Carbon (T.O.C.), and was found to be 90.7% biodegradable in 28 days. Based on this data, it is reasonable to assume that this substance will undergo rapid and ultimate biodegradation in aerobic aquatic environments. This is known as "ready biodegradability".

SECTION XIII. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local regulations.

SECTION XIV. TRANSPORT INFORMATION (Not meant to be all inclusive)

D.O.T SHIPPING NAME: Not Regulated

CANADIAN TDG SHIPPING NAME: Not Regulated

TECHNICAL SHIPPING NAME: Not Applicable

D.O.T. HAZARD CLASS: Not Applicable

U.N./N.A. NUMBER: Not Applicable

PRODUCT RQ (LBS): Not Applicable

D.O.T. LABEL: Not Applicable

D.O.T. PLACARD: Not Applicable

FREIGHT CLASS BULK: Not Applicable

FREIGHT CLASS PACKAGE: Not Applicable

PRODUCT LABEL: Not Applicable

SECTION XV. REGULATORY INFORMATION (Not meant to be all inclusive - selected regulation represented)

TSCA STATUS: All ingredients in this product are either on the inventory or are exempt from being listed.

CERCLA REPORTABLE QUANTITY: None

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None

SECTION 311/312 HAZARDOUS CATEGORIES: Acute Hazard

SECTION 313 TOXIC CHEMICALS: None

RCRA STATUS: Not Applicable

CALIFORNIA PROPOSITION 65: This product is not subject to the reporting requirements under California Proposition 65.

SECTION XVI. OTHER INFORMATION

MSDS STATUS:

Disclaimer: The information contained herein is based on data we believe to be reliable as of the date of preparation of this Material Safety Data Sheet. The accuracy and completeness of such data are not warranted or guaranteed. We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products may be used. We assume no liability or responsibility for loss or damage resulting from the improper or abnormal use or handling of our products, from incompatible product combinations, from the failure to follow instructions and warnings in the product's label and Material Safety Data Sheet, or from any failure to adhere to recommended practices.