

**MATERIAL SAFETY DATA SHEET**

Aircraft Glass Cleaner

FILE NO.: 254000000

MSDS DATE: 01/14/12

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME:** Aircraft Glass Cleaner  
**PRODUCT CODES:** AVL-AGC**PRODUCT USE:** Glass Cleaner**MANUFACTURER:** Aviation Laboratories  
**ADDRESS:** 5401 Mitchelldale #B-6  
Houston, TX 77092**CHEMTEL PHONE:** 1-800-255-3924  
**OTHER CALLS:** 1-800-231-0454  
**FAX PHONE:** 979-421-9373**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

Name	CAS No.	OSHA PEL	ACGIH TLV
2-BUTOXY ETHANOL	111-76-2	50 ppm	20 ppm
ETHYL ALCOHOL	64-17-5	1000 ppm	1000 ppm
PROPANE/N-BUTANE	68476-86-8	N/A	1000ppm

**SECTION 3: HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW:** Aerosol under pressure do not expose to high temperatures 120°F or store in direct sunlight.**ROUTES OF ENTRY:** Skin, Eyes, Ingestion, Inhalation**POTENTIAL HEALTH EFFECTS****EYES:** Irritation likely**SKIN:** May cause slight irritation, possible dryness with prolonged contact.**INGESTION:** May cause gastric discomfort and nausea**INHALATION:** No hazards under normal use.**ACUTE HEALTH HAZARDS:** See health hazards above**CHRONIC HEALTH HAZARDS:** None known**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** None known**CARCINOGENICITY** OSHA: No      ACGIH: No      NTP: No      IARC: No      OTHER:**SECTION 4: FIRST AID MEASURES****EYES:** Flush with water for 15 minutes. Contact physician if irritation persist**SKIN:** Wash with soap and water for 15 minutes. If irritation develops seek medical attention.**INGESTION:** Do not induce vomiting. Rinse mouth and give 1 - 2 glasses water if conscious and alert. Contact physician.**INHALATION:** Move to fresh air. If not breathing administer artificial respiration.**SECTION 5: FIRE-FIGHTING MEASURES****FLAMMABLE LIMITS IN AIR (% BY VOLUME)**      UPPER: N/A      LOWER: N/A**FLASH POINT (Method TCC):** F: 70 C: 21.11      **AUTOIGNITION TEMPERATURE:** F: N/A C: N/A**NFPA HAZARD CLASSIFICATION:** HEALTH: 1      FLAMMABILITY: 1      REACTIVITY: 1      OTHER:**HMIS HAZARD CLASSIFICATION:** HEALTH: 1      FLAMMABILITY: 0      REACTIVITY: 1      PROTECTION: A**EXTINGUISHING MEDIA:** Water, foam, carbon dioxide, dry chemical. Cool fire exposed containers with water fog.**SPECIAL FIRE FIGHTING PROCEDURES:** Use full protective gear including self-contained breathing apparatus.**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Contents under pressure, exposure to high temperatures above 120°F can cause bursting.**HAZARDOUS DECOMPOSITION PRODUCTS:** oxides of carbon

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**ACCIDENTAL RELEASE MEASURES:** Use absorbent on spill sweep to clean. Dispose in accordance with local, state and federal laws. Small releases may be wiped up with wiping material.

**SECTION 6 NOTES:** Keep out of reach of children.

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## SECTION 7: HANDLING AND STORAGE

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**HANDLING AND STORAGE:** Store in a cool dry area. Do not use or store near heat or open flame. Exposure to temperatures above 120 F may cause bursting.

**OTHER PRECAUTIONS:**

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**ENGINEERING CONTROLS:**

**VENTILATION :** Ambient suitable, forced ventilation should not be required

**RESPIRATORY PROTECTION:** Not required under normal use. If exposure levels are exceeded then organic vapor cartridge respirator or SCBA will be needed.

**EYE PROTECTION:** Safety glasses always recommended when using chemicals.

**SKIN PROTECTION:** None needed.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** None needed.

**WORK HYGIENIC PRACTICES:** Wash hands with soap and water.

**EXPOSURE GUIDELINES:**

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** White Foam

**ODOR:** Mild Pleasant odor

**PHYSICAL STATE:** Liquid

**pH AS SUPPLIED:** 9.00

**BOILING POINT:** F: >212 C: >100

**MELTING POINT:** F: not tested C:

**VAPOR PRESSURE (mmHg):** 17.5 @ F: 77 C: 25

**VAPOR DENSITY (AIR = 1):** >1 @ F: 77 C: 25

**SPECIFIC GRAVITY (H2O = 1):** 0.983 @ F: 77 C: 25

**EVAPORATION RATE (Butyl Acetate =1):** <1

**SOLUBILITY IN WATER:** 100%

**VOLATILE ORGANIC COMPOUNDS (VOC):** 12%

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**SECTION 10: STABILITY AND REACTIVITY**

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STABILITY: STABLE X UNSTABLE

CONDITIONS TO AVOID (STABILITY): Temperatures above 120F

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers, Alkalies, Acids

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Oxides of carbon

HAZARDOUS POLYMERIZATION: None

CONDITIONS TO AVOID (POLYMERIZATION): None

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**TOXICOLOGICAL INFORMATION:** 2-Butoxy Ethanol - 111-76-2; Oral rat LD50: 470 mg/kg; Inhalation rat LC50: 450ppm/4H; Skin rabbit LD50: 220 mg/kg; investigated as a tumorigen, mutagen, reproductive effector. Reproductive Toxicity: Has shown teratogenic effects in laboratory animals.

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**SECTION 12: ECOLOGICAL INFORMATION**

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**ECOLOGICAL INFORMATION:** 2-Butoxy Ethanol - 111-76-2 - LC50/96-hour values for fish are over 100 mg/l. This material is not expected to be toxic to aquatic life.

**SECTION 12 NOTES:** 2-Butoxy Ethanol - 111-76-2 -This material has an estimated bioconcentration factor (BCF) of less than 100. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life of less than 1 day.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**WASTE DISPOSAL METHOD:** Dispose of in accordance with local, State and Federal regulations. Waste Disposal Method: Wrap container and place in trash collection and do not puncture or incinerate container.

RCRA HAZARD CLASS: Considered Non-hazardous under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

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**SECTION 14: TRANSPORT INFORMATION**

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**U.S. DEPARTMENT OF TRANSPORTATION****PROPER SHIPPING NAME:** CONSUMER COMMODITY**HAZARD CLASS:** ORM-D**ID NUMBER:****PACKING GROUP:****WATER TRANSPORTATION****PROPER SHIPPING NAME:** Call manufacturer**HAZARD CLASS:****ID NUMBER:****PACKING GROUP:****AIR TRANSPORTATION**

Call manufacturer

**PROPER SHIPPING NAME:****HAZARD CLASS:****ID NUMBER:****PACKING GROUP:**

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**SECTION 15: REGULATORY INFORMATION**

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**U.S. FEDERAL REGULATIONS****TSCA (TOXIC SUBSTANCE CONTROL ACT):** All Chemicals are listed**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** METHANOL – 67-56-1**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):** none**311/312 HAZARD CATEGORIES:** 2-BUTOXY ETHANOL - 111-76-2 – Acute immediate health hazard, Delayed chronic health hazard**313 REPORTABLE INGREDIENTS:** 2-BUTOXY ETHANOL - 111-76-2; METHYL ALCOHOL - 67-56-1**STATE REGULATIONS:** This product contains no known chemicals regulated by California's proposition 65.

New Jersey's Worker and community Right to Know Act: 2-BUTOXY ETHANOL - 111-76-2; METHANOL – 67-56-1

Massachusetts' Right to Know Law: 2-BUTOXY ETHANOL - 111-76-2

Pennsylvania's Right to Know Act: 2-BUTOXY ETHANOL - 111-76-2; METHANOL – 67-56-1

**INTERNATIONAL REGULATIONS:****EINECS:** 2-Butoxy Ethanol - 111-76-2;**Japan:** 2-Butoxy Ethanol - 111-76-2;**Australia:** 2-Butoxy Ethanol - 111-76-2;**WHMIS (Canada):** 2-Butoxy Ethanol - 111-76-2;**DSCL (EEC):** 2-Butoxy Ethanol - 111-76-2; **NDSL:****Korea:** 2-Butoxy Ethanol - 111-76-2;

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**SECTION 16: OTHER INFORMATION**

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**OTHER INFORMATION:****PREPARATION INFORMATION:** Juanita Mercure

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