

DESCRIPTION

Aircraft Cleaner is designed for use on aircraft bodies and parts and other objects containing aluminum.

Aircraft Cleaner relies on its detergents, solvents, softeners, and corrosion inhibitors instead of causticity to perform its cleaning functions.

Aircraft Cleaner rinses freely, is non-flammable and non-toxic, and is non-corrosive to clothing and painted surfaces in use dilutions.

Aircraft Cleaner is a water-based cleaner that contains no harsh solvents or thinners.

DIRECTIONS

Heavy Duty cleaning with Solvents:

Dilute 21 to 42 oz *Aircraft Cleaner* per gallon (160 to 320 ml/litre) (1:6 to 1:3) of kerosene or solvent to degrease engines, equipment, aircraft parts, undercarriage, tanks and other heavy duty jobs. Let *Aircraft Cleaner* penetrate the soil, then hose off with a strong stream of water.

General cleaning with Water:

Dilute 4 to 13 oz *Aircraft Cleaner* per gallon (30 to 100 ml/litre) (1:30 to 1:10) of water for general cleaning of aluminum, painted surfaces, vinyl and plastics.

PHYSICAL DATA

Appearance	Clear liquid
Color	Yellow
Foam	Low
Odor	Mild
pH	12.5-13.5

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **AIRCRAFT CLEANER**

WHMIS CODE: D2B, E
 Proper Shipping Name: N/A
 Hazard Class: N/A
 UN Number: N/A

HMIS	
3	Health
0	Flammability
0	Reactivity
B	Personal

Product Use: *Aircraft wash.*

M-chem Technologies Inc.
 1607 Derwent Way
 Delta, BC V3M 6K8, Canada
 Phone: (604) 526-5655

EMERGENCY PHONE
 Canada: Canutec 613-996-6666
 U.S.A.: Chemtrec 800-424-9300

A=Goggles, B=Goggles & Gloves
 C=Goggles, Gloves and Apron

ABBREVIATION KEY: N/A=Not Applicable, N/E=Not Established, N/D=Not Determined, > =Greater Than

SECTION 2 – HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO.	RANGE %	PEL	TLV
ETHYLENE GLYCOL MONOBUTYLETHER Exposure limit skin: 25 ppm The above item is reported per 40 CFR 372, Section 313 of Emergency Planning and Community Right to Know Act of 1986	111-76-2	1.0-5.0	N/D	25 ppm TWA
LD50 1746 mg/kg				
LD50 436 ml/kg (Rabbit)				
LC50 700 ppm, 7hr. (Mouse)				
ALCOHOL ETHOXYLATE 68439-46-3	1.0-5.0	N/A	N/A	
LD50 (oral rat) 1376 mg/kg				
LD50 (dermal rabbit) >2 g/kg				
TRI SODIUM PHOSPHATE	7601-54-9	1.0-5.0	None	N/E
LD50 (oral rat) 7400 mg/kg				
LD50 (dermal) Not Available				

SECTION 3 – PHYSICAL DATA

Color and Odor: Clear yellow, mild odor. **Boiling Point:** N/D **Vapor Pressure (mm HG):** N/D **pH:** 13.0 +/- 0.5
Physical State: Liquid. **Melting Point:** N/A **Vapor Density:** N/D **Specific Gravity:** 1.03 @ 20°C
Coef. Water/Oil Dist: Greater than 1.0 **Evaporation Rate:** N/D **Solubility in Water:** Soluble **Odor Threshold:** No Data

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: None to 100°C (TCC) **Sensitivity to Mechanical Impact:** None. **Extinguishing Media:** Not flammable.
Flammable Limits: None known. **Sensitivity to Static Discharge:** None. **Auto ignition Temperature:** None known.
Conditions of Flammability: None.
Unusual Fire and Explosion Hazards: Prolonged contact with reactive metals (i.e. aluminum, tin, zinc, etc.) May form flammable and explosive hydrogen gas in confined areas.
Hazardous Combustion Products: Decomposition may produce oxides of carbon, phosphorus and other unidentifiable organic compounds.
Special Fire Fighting: Wear full protective equipment, including a NIOSH/MSHA approved, self-contained breathing apparatus for fire fighting situations. Use water spray to cool all nearby fire exposed surfaces.

SECTION 5 – REACTIVITY DATA

Chemical Stability: Stable under normal storage conditions. **Hazardous Polymerization:** Will not Occur.
Incompatibility (material to avoid): Strong oxidizing and acids.
Hazardous Decomposition Products: Decomposition may produce oxides of carbon, phosphorus and other unidentifiable organic compounds.

SECTION 6 – TOXICOLOGICAL DATA

Exposure Limits: See Section 2 under Hazardous Ingredient. **Routes of Entry:** Skin, eyes, skin absorption, and inhalation.
Irritancy of Product: Corrosive to skin, eyes and respiratory system. **Carcinogenicity:** None known.
Sensitization: None known. **Mutagenicity:** None known.
Name of Toxicological Synergistic Product: None known. **Reproductive Toxicity:** None known.
Teratogenicity: None known.
Effects of Chronic Exposure: Prolonged or repeated exposure may cause skin irritation or dermatitis, respiratory disorder and may also cause blood disorders through skin absorption of ethylene glycol monobutyl ether (based on animal test data).
Effects of Acute Exposure to Product: Product exposure may irritate or burn skin and eyes. Prolonged inhalation of vapours or mists may cause breathing problems, headaches, and nausea. Also, may be harmful if absorbed through skin. Ingestion may cause gastro-intestinal and abdominal discomfort, and symptoms similar to inhalation.

SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: If product is misted or sprayed, or used in a confined area, use a NIOSH/MSHA approved dust/mist respirator.
Ventilation: Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.
Protective Gloves: Natural or butyl rubber, nitrile or neoprene gloves.
Eye Protection: Chemical goggles, safety goggles or face shield.
Protective Clothing and Equipment: Long sleeve coveralls. Eye wash recommended in the immediate work area.
Storage and Handling Procedures: Use good industrial hygiene. Do not get in eyes. Avoid contact with skin and clothing. Avoid breathing sprays or mists. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Do not mix with any other chemicals. Store at temperatures below 30°C (86°F) and keep from freezing.
Disposal Procedures for Spills or Leaks: Wear protective equipment. Dike and contain large spills. Pump spills into DOT-approved waste container. For small spills, soak up with a suitable absorbent such as clay, soil or commercially available absorbents, and then dispose of into a DOT-approved waste container. Keep away from sewers and out of natural waters.
Waste Disposal Method: Reuse if possible, or otherwise dispose recovered material in accordance with all local, Provincial or Federal Regulations.
Special Shipping Information: Store at temperatures below 30°C (86°F) and keep from freezing.

SECTION 8 – EMERGENCY FIRST AID PROCEDURES

First Aid:
 If swallowed, give plenty of clean water to drink to dilute product. Do not induce vomiting. Call a Physician. In case of contact with eyes, flush with clean water for 15 minutes. Get medical attention. For contact with skin, wash with clean water and rinse well. If irritation occurs or persists, get medical attention.

PREPARATION DATA

PREPARED BY: Technical Service / Regulatory Division PHONE: 604-526-5655 LAST UPDATE: 10/01/09
 THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM CURRENT SOURCES AND IS BELIEVED TO BE RELIABLE