

Univar USA Inc Material Safety Data Sheet

AVIATION LABORATORIES C/O ASIG-PDX 8133 N.E. AIRTRANSWAY PORTLAND OR 97218

MSDS No:	81766		
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Order No:	PO956150		

Univar USA Inc., 17425 NE Union Hill Rd., Redmond WA 98052 (425) 889 3400

Emergency Assistance

For emergency assistance involving chemicals call Chemtrec - (800) 424-9300

MATERIAL SAFETY DATA SHEET CUST: AVIATION LABORATORIES

Material Safety Data Sheet U.S. Department of Labor May be used to comply with OSHA Hazard Communication Occupational Safety and Health Administration Standard, 29 CFR 1910 1200. Standard must be consulted for (Non-Mandatory Form) Form Approved specific requirements. OMB No. 1218-0072 Meets Military Specifications MIL-1-85470A. IDENTITY (as Used on Label and List) MIL-DTL-85470B and ASTM STANDARD D4171. DICE FLASH 190, FUEL SYSTEM ICING INHIBITOR PRODUCT NUMBER: D-F190-55 and D-F190-5P Section I Emergency Telephone Number 1-800-424-9300 Manufacturer's name AVIATION LABORATORIES, INC. Telephone Number for Information 713-864-6677 Address Number Street 5401 Mitchelldale #B6 Date Prepared 07/5/01 City, State and ZIP Code Houston, Texas 77092 Signature of Preparer (optional) Section II—Hazardous Ingredients/Identity Information Hazardous Components (Specific Chemical Identity, Common Name(s) Carbitrol, Diethylene Glycol Monomethyl Ether Chemical Family: DM Glycol Ethers CAS Number: 111-77-3 OSHA PEL: Manufacture recommends a work place exposure limit of 30 ppm ACGIH TLV: 99%WW Shipping description for bulk products: 5-gal. Container, 55 gal. Drum Container or bulk truck and rail tankers. 1) Domestic: Information pertaining to particular dangers for man and environment R 36/37/38 Irritating to eyes, respiratory system and skin. Effects of Acute Overexposure Health = 2 Fire = 2 Reactivity = 0 NFPA rating (scale 0-4) Section III—Physical/Chemical Characteristics Boiling Point (degrees Fahrenheit Specific Gravity (H₂0 = 1) 1.021 @ 25C 381 F (194 C) **Boiling Point:** Vapor Pressure (mm Hg) 25 MMHG @ 25C 381F (194 C) 1021 G/L OR 8.47 Vapor Density (AIR = 1) Volatile Organic Compounds VOC) Content 4.16 LB/GAL as per Rule 443.1 of California SCAQMD Solubility in Water: Completely miscible Appearance and Odor: Clear, colorless liquid, mild odor Section IV—Fire and Explosion Hazard Data Permissible Exposure Level: Flämmable Limit: I E P UEU 22.7% Manufacture recommends a workplace exposure limit of 30 ppm. Flash Point (TTC) 1.38% 197 F (91.7 C) Extinguishing Media: Water tog or line spray, Carbon Dioxide, Dry chemical, toams. Alcohol resistant toams (ATC Type) are preferred if available. General-purpose synthetic foams. Media to avoid (Do Not use direct water stream) this could spread flames.

Special Fire Fighting Procedures: Never use welding or cutting torch on or near drums (even empty) because (residue product) can ignite explosively. All 5-gal pails or larger container including tank car should be grounded and or bonded when material is transferred. Vapors are heavier than air and may travel along the ground and or move by ventilation and ignited by heat, pilot lights, or other flame and ignition sources at locations distant from material handling point.

Protection for Fire Fighters: Wear POSITIVE-PRESSURE SELF CONTAINED BREATHING APPARATUS (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves). If protective equipment is not available or not used, light fire from a protected location or safe distance.

Eve Protection: Wear chemical splash goggles in compliance with OSHA regulations are advised; OSHA regulations also permit other type safety glasses. Consult your safety representative.

Other Protective Equipment: To prevent repeated or prolonged skin contacts, wear impervious clothing and boots.

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Section V 5	Pagetivity Data				·····			
Section V—Reactivity Data stable under recommended storage conditions. See storage section								
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Chemical Stability:						<u> </u>		
Incompatibility (Materials to Avoid): Avoid contact with Alkali and oxidizing materials at elevated temperatures.								
Hazardous Decomposition or Byproducts: Does not normally decompose. Hazardous decomposition products depend upon temperature,								
air supply and the presence of other materials. Burning can produce Carbon Monoxide or Carbon Dioxide.								
						ons to Avoid: See handling and storage		
		рю		recautions Section: 6				
Section Vi—Health Hazard Data								
					<u>-</u> -			
Engineering	Controls: Provide g	eneral or local exhaust vent	tilation to control	airborne	levels below exposure gi	idelines.		
Derennal Pro	tective Equipment	Eve protection use safety	nlasses Skin or	otection: I	No precautions other tha	n clean body clothing should		
		Atmospheric levels should b						
		e an approved air-purifying			Apodaro goroomio,	, 6		
required for o	criam operations, oc	o an approved an pernying	· oopiiaioii					
	ddelines DEL Deu		avaasura limit of	20 000				
		recommends a workplace	exposure iiniii oi	зо ррии.				
Physical and	Chemical Propert	es: See section III						
	• • •	of Exposure wash with soap		-				
Acute: Diethy	ylene Glycol Monom	ethyl Either is and eye and r	mucous membra	ne irritant	, a Nephrotoxin and cent	ral nervous system		
depressant.	Can be toxic by skin	absorption.						
Eve: May cau	ise pain and irritation	and or transient injury. Flu	ish eyes with wa	iter.				
Skln: Materi	al can be absorbed t	hrough skin in toxic amount	s when contact i	s extensiv	e or prolonged. Avoid c	ontact by use of appropriate		
protective eq	uipment (See section	ı 7).						
Ingestion: T	his product is low in	oral toxicity. The acute oral	LD-50 in rats is	5.5 gms/l	kg.			
Inhalation: I	vlay cause irritation t	o the mucous membranes.	Due to the low v	olatility o	f this material at normal r	oom temperature. It is		
		zards from inhalation when						
Chronic: Fetal development abnormalities and effects on fertility have been reported to occur from prolonged ingestion by rabbits.								
atternet to the government designation and one of terminy meta boot topologic to book from prototiged inguition of topologic								
	-Control Measures	vno). Use a half or full-face	niece organic v	anor chem	nical cartridge or canister	respirator to minimize		
Respiratory Protection (Specify Type): Use a half or full-face piece organic vapor chemical cartridge or canister respirator to minimize exposure. Use self-contained breathing apparatus.								
Ventilation	Local Exhaust: Su	X			Special N/A			
Mechanical (General): Not required but strongly suggested Other				er				
Protective Gloves: Impervious, chemical resistant, butyl rubber Protective Eye Wear: Splash proof goggles if potential for splash								
exists.								
Other Protective Clothing or Equipment: Boots, aprons, or chemical suit should be used when necessary to prevent skin contact. Note								
personal protective clothing use of equipment must be in accordance with 29 CFR 1910.132 and 29 CFR 1910.133.								
Work/Hygien	Work/Hygienic Practices: Wash hands after handling							

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Section VIII - Precautions for Safe Handling and Use

<u>Handling</u>: Container even those that have been emptied, can contain vapors. DO NOT Cut, grind, weld or perform similar operations on or near empty containers. NO SMOKING, open flame sources of ignition in handling and storage area. Never use air pressure for transferring product. Electrically ground all equipment.

Storage: Use of non-sparking or explosion proof equipment may be necessary, depending on the type of operation.

Minimize sources of ignition, such as static build-up, heat, sparks, or open flame. Store in Carbon Steel, Stainless Steel, or Teflon containers.

Steps to be taken in case material is released or spilled:

Evacuate the area and provide maximum ventilation. Unprotected personnel should move upwind of spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on an absorbent, such as sawdust on vermiculite, and sweep into a closed container for disposal after all visible traces, including ignitable vapors, have been removed, thoroughly wet vacuum the area. Do Not flush to sewer. If area of spill is porous, remove as much earth and gravel as necessary and place in closed container for disposal. Waste disposal method: Care must be taken when using or disposing of chemical materials and or their container to prevent environmental contamination. It is your duty to dispose of the chemical materials and their containers in accordance with the clean air act, the clean water act, the resource conservation and recover act, as well as any other relevant federal, state, or local laws/regulations regarding disposal.

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Revisions made to 10/13/94, include revisions to section V, VI, VII, VIII

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For Additional Information contact MSDS Coordinator during business hours, Pacific time: (425) 889-3400

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