

**MATERIAL SAFETY DATA SHEET**

FOR COATINGS RESINS AND RELATED MATERIALS

PRODUCT NAME: Randolph A-1690 Non-Tautening Butyrate (Clear)  
 PRODUCT CODE:  
 UN1263 PAINT, 3, PG 11  
 FLAMMABLE LIQUID

HMS CODES: H-2 F-3 R-0 P  
 PRODUCT CLASS: 3 (Butyrate Dope)

**SECTION I - MANUFACTURER IDENTIFICATION**

PREPARED BY: Consolidated Aircraft Coatings  
 P.O. Box 3129, Riverside, CA 92510  
 STREET ADDRESS: 4343 Fort Drive, Riverside, CA 92509

DATE OF PREP: 8/17/09  
 NAME OF PREPARER: Greg Albarian

EMERGENCY TELEPHONE NO. - Chemtrec (800) 424-9300, Int'l (703) 527-3887 (International Call Collect)  
 INFORMATION TELEPHONE NO. - (951) 884-4260 (951) 809-7144 (760) 782-1947

**SECTION II - HAZARDOUS INGREDIENTS/ SARA III INFORMATION**

REPORTABLE COMPONENTS	OCCUPATIONAL EXPOSURE LIMITS		WT. %	VAPOR PRESSURE		TOXICITY DATA
	ACGIH-TLV	ACGIH-TLV		ACGIH-TLV	ACGIH-TLV	
Toluene*(CAS #108-88-3)**	200 PPM	50 PPM	32.4	54mmHg @68°F	Mod. Ingest. Inhal. Skin	
Acetone*(CAS #57-84-1)	750 PPM	750 PPM	18.4	181mmHg @68°F	Moderate	
Methyl Ethyl Ketone*(CAS# 78-93-3)	200 PPM	200 PPM	12.7	77.5mmHg @68°F	Narcotic by Inhalation	
Isopropyl Alcohol*(CAS #67-63-0)	400 PPM	400 PPM	9.4	33mmHg @68°F	Mod. Ingest. Inhal.	
Diacetone Alcohol*(CAS #123-42-2)	50 PPM	50 PPM	5.2	81mmHg @68°F	Mod. Skin Irritant	
Butyl Acetate*(CAS #123-86-4)	150 PPM	150 PPM	5.0	10mmHg @68°F	Mod. Skin Irritant	
Ethyl Acetate 99%*(CAS# 141-78-5)	400 PPM	400 PPM	3.1	73mmHg @68°F	Mod. Inhalation	
Triphenyl Phosphate			<2.0			
Phosphoric Acid			<1.0			

\*This material is subject to the reporting requirements of section 313 of the Emergency Planning and the Community Right-To-Know Acts of 1986 and of 40 CFR 372.

This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**SECTION III - PHYSICAL DATA**

BOILING RANGE: 131-342° F  
 VAPOR DENSITY: Unknown  
 COATING V.O.C.: 6.26 lb/gal 750 gr/l  
 MATERIAL V.O.C.: Unknown  
 APPEARANCE AND ODOR: Clear color. Typical solvent odor.

SPECIFIC GRAVITY (H<sub>2</sub>O= 1): .67  
 EVAPORATION RATE: Slower than other  
 SOLUBILITY IN WATER: Insoluble

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT: -4°F (-20° C)  
 FLAMMABLE LIMITS IN AIR BY VOLUME: LOWER: 1.4% UPPER: 12.8%  
 EXTINGUISHING MEDIA: Alcohol foam, Dry Chemical, CO<sub>2</sub>, Foam, Water Fog

METHOD USED: TCC

SPECIAL FIREFIGHTING PROCEDURES: Provide respiratory protection against fumes generated during burning. Water stream will spread fire. Do not use water hose stream. Product may float and can be reignited on the surface of the water. Full bunker gear is required in fire area (helmet with face shield, bunker coat, gloves, rubber boots). Do not enter a confined area without full bunker gear including a positive-pressure NIOSH-approved self-contained breathing apparatus. Isolate from heat, sparks, electrical equipment and open flame. Decomposition products may form toxic materials.  
 UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed. Isolate from heat, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat. Remove all non-essential personnel from fire area. Vapor is heavier than air and can travel considerable distances to a source of ignition and flashback. Never use welding or cutting torch on or near drum (even empty) because residue or product can ignite explosively. Flammable material.

**SECTION V - HEALTH HAZARD DATA**

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: High concentrations may cause headaches and dizziness, are anesthetic, and may have other central nervous system effects, including death. Irritating to eyes, skin, nose and throat. Central nervous system effects including excitation, euphoria, contracted eye pupil, dizziness, blurred vision, fatigue, nausea, headache, loss of consciousness, respiratory arrest and sudden death could occur of long term and/or high concentration exposures vapors. Intentional misuse by deliberately concentrating and inhaling the contents of this product may be harmful or fatal.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Chronic health effects are possible from long-term exposure to this material, including drying, cracking and irritation of the skin. Reacts with skin protein and moisture and can cause rash, scaling or blistering. Prolonged or repeated contact can cause moderate irritation, dermatitis and/or dermatitis. Skin and eyes should be flushed with water for at least 15 minutes.

INGESTION HEALTH RISK AND SYMPTOMS OF EXPOSURE: Harmful if swallowed. Toxic if ingested. May affect liver, kidneys or blood. MEK has caused cancer in certain animal tests. Preexisting eye, skin, heart, central nervous system and respiratory disorders may be aggravated by exposure to this product.

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**HEALTH HAZARDS (ACUTE AND CHRONIC):** Overexposure may cause anesthesia, headache, nausea or dizziness. Breathing the vapors may irritate the nose and throat. Detectable amounts of chemicals or substances known to the state of California to cause cancer, birth defects, or other reproductive harm may be found in this product. Use care when handling chemical and petroleum products even though they are water reducible.

**CARCINOGENICITY:** NTP CARCINOGEN: N/A IARC MONOGRAPHS: N/A OSHA REGULATED: N/A MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE TO THIS PRODUCT: Preexisting eye, skin, heart, central nervous system and respiratory disorders may be aggravated by exposure to this product.

**EMERGENCY AND FIRST AID PROCEDURES:**

**Inhalation:** Remove to fresh air. Restore breathing. Vapors may irritate the nose and throat. Consult physician. If breathing stops, give artificial respiration. Keep person warm.

**Splash (Eye):** Contact lens wearers should consult provider before handling. Flush with copious amounts of water. Consult physician immediately if there is eye contact. First aid must be started immediately, since delay can result in serious injury. Call a physician as soon as possible no matter how slight the injury appears to be. Flush with water for at least 15 minutes.

**Splash (Skin):** Wash with soap and water. Remove contaminated clothing. Consult physician if irritation persists.

**Ingestion:** Do not induce vomiting. Keep person warm, quiet and get medical attention. Drink 1 or 2 glasses of water to dilute. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, keep head below hips to prevent aspiration of liquid into the lungs. Consult physician or poison control center immediately.

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**SECTION VI - REACTIVITY DATA**

**STABILITY:** This product is stable under normal storage conditions.

**CONDITIONS TO AVOID:** Avoid strong oxidizers, acids and alkalies.

**INCOMPATIBILITY (MATERIALS TO AVOID):** If product contains aluminum, do not contaminate with acids, caustics, chlorinated hydrocarbons or oxidizers as these materials will react with aluminum to produce hydrogen and heat. Avoid strong alkalines or strong oxidizers. This material may dissolve some plastics, rubber compounds or coatings. May react strongly with acids while in liquid form.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:** Thermal decomposition releases carbon monoxide and/or carbon dioxide.

**HAZARDOUS POLYMERIZATION:** Will not occur under normal conditions.

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**SECTION VII - SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Avoid breathing solvent vapor. Ensure adequate ventilation. Avoid sparks, flames, and anything that could cause fire. Eliminate source of spill if you can do so without risk by closing valve, plugging hole, etc. Apply absorbent inert material (sand, dust, vermiculite) to spill. Clean spill with bristle brooms, non-sparking tools, clean dry rags. Protective clothing should be worn. Recover free liquid. Keep chemical products out of streams and waterways. Flush with water to a tank or to an opened well-ventilated area. Absorb or remove to container and dispose of properly in conformity with local government restrictions.

**WASTE DISPOSAL METHOD:** Soak liquids with sawdust or rags and remove. Flush with water if possible. Avoid skin contact. Disposal should be in accordance with local, state, and federal regulations. Do not incinerate, cut or weld empty containers. When discarded this material is a hazardous waste. Transfer liquid to containers for recovery or disposal, EPA Hazardous Waste Code F003 hazardous waste characteristics. Ignitability. Consult a disposal expert. For highway or road spill, contact Chemtrec at (800) 424-9300.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Pre-existing sensitivity to solvents can cause a heightened reaction to exposure to this product. Drums should be grounded when being emptied. Avoid storage in high temperature areas or near fire or open flame. Keep container closed. Use only with adequate ventilation. Store in tightly closed containers in cool, dry, isolated, well-ventilated area away from heat or flame, sources of ignition and incompatible materials. Transfer small amounts left over into small containers. Ground lines, containers and other equipment during product transfer. Do not store in glass containers due to the danger of breaking. Do not pour into containers that held highly flammable materials; static electricity may result. Use good hygiene practices. Wash hands before eating, drinking, etc.

**OTHER PRECAUTIONS:** Avoid contact with eyes and prolonged or repeated contact with skin. Avoid prolonged or repeated breathing of vapor. Do not ingest. Keep containers tightly closed. Replace all bungs tightly before shipping or storing. Avoid contact with amines. Warning: This product contains chemicals known to the State of California to cause birth defects or other reproductive harm.

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**SECTION VIII - SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:** Unless air monitoring demonstrates vapor/dust/mist levels below the current PEL or TLV values, always wear an appropriate, properly fitted (NIOSH/MSHA-approved) respirator during use to prevent overexposure. Avoid prolonged or repeated breathing of vapors. In accord with 29 CFR 1910.134, use air-purifying and particle-collecting respirator.

**VENTILATION:** Should be explosion proof and keep the air contaminant concentration below current OSHA Permissible Exposure Limit (PEL) or ACGIH's Threshold Limit Value (TLV). Solvent vapors should be removed from lower levels of work area and ignition sources should be eliminated. A spray booth is recommended.

**PROTECTIVE GLOVES:** Use protective creams where skin contact is likely. Use rubber or neoprene gloves to prevent skin contact. Use gloves that will resist the product.

**EYE PROTECTION:** Chemical safety goggles (or glasses with side shields) or face shields to prevent eye splashes.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Precautions must be taken so that persons do not have contact with eyes or skin. Protect against exposure to both vapor and spray mist. Remove and wash contaminated clothing before reuse. Wear eye protection devices. If required, wear chemical resistant gloves and other clothing.

**WORK/HYGIENIC PRACTICES:** Wash hands with soap and water before eating, smoking or using toilet facilities. Dispose of contaminated clothing as soon as possible.

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**SECTION IX - DISCLAIMER**

Above information is based on data supplied to us and is believed to be correct. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since the data made available subsequent to the date hereof may suggest modifications of the information, we do not assume responsibility for the results of its use. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose. It is the user's obligation to determine the safe use of it.