



# Material Safety Data Sheet

## AC-<sup>®</sup> 502 Part B

MSDS No: 250210-01  
Effective: 01/27/09  
Supersedes: 09/14/05  
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### 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

SIN #834-100

Product ID: AC-502 Part B  
Generic Description: Primer  
Product Use: Aircraft Coating

For information, contact:  
Advanced Chemistry & Technology  
7341 Anaconda Avenue  
Garden Grove, CA 92841-2921  
714 - 373 - 2837

**ChemTrec Emergency**  
**1 - 800 - 424 - 9300**

HAZARD RATINGS		
	HMIS	NFPA
Health	2*	2
Fire	2	2
Reactivity	0	0
	* = Chronic	

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME  
4-Chlorobenzotrifluoride  
Nitroethane  
Non-hazardous and other ingredients below reportable levels

CAS #	Approximate % (w/w)
98-56-6	50 – 60
79-24-3	5 – 10
Proprietary	Balance

### 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: FLAMMABLE LIQUID AND VAPOR. MAY CAUSE ALLERGIC SKIN REACTION. CAUSES EYE IRRITATION. CAUSES SKIN IRRITATION. CAUSES DIGESTIVE TRACT IRRITATION. INHALATION MAY CAUSE DIZZINESS, HEADACHE AND LOSS OF COORDINATION. INGESTION CAN CAUSE DIZZINESS, FAINTNESS, HEADACHE AND INCOORDINATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. INGESTION MAY CAUSE NAUSEA, VOMITING, PAIN, UPSET STOMACH, DIARRHEA. INHALATION MAY CAUSE NAUSEA, VOMITING, UPSET STOMACH. See sections 3, 5, & 6.

PRIMARY ROUTES OF EXPOSURE: Eye. Skin. Inhalation (breathing).

EYE CONTACT: Causes irritation. Can cause burning sensation, tearing, and redness.

SKIN CONTACT: Causes irritation. May cause allergic skin reactions and sensitization.

INHALATION (Breathing): Irritating to the eyes, nose, and respiratory tract. Can cause dizziness, headaches, and loss of coordination. Nausea, vomiting, and stomach upset can occur.

INGESTION (Swallowing): irritating to the mouth, throat, and stomach. May cause nausea, vomiting, pain, and stomach upset (e.g., diarrhea). Can cause dizziness, faintness, headache, and loss of coordination.

TARGET ORGANS/CHRONIC EFFECTS: Liver. Kidneys. Nervous system. Eyes. Skin. Reproductive system

CONDITIONS AGGRAVATED BY EXPOSURE: Liver. Kidneys., Nervous system. Blood and/or blood-forming organs. Lungs and respiratory system. Skin. Immune systems and/or specific chemical allergies..

#### CARCINOGENICITY:

	ACGIH	IARC	NTP	OSHA
4-Chlorobenzotrifluoride	No	No	No	No
Nitroethane	No	No	No	No



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### 4. FIRST AID MEASURES

**EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.

**SKIN CONTACT:** Immediately flush with plenty of water for at least 15 minutes. For large exposures use an emergency shower. Remove contaminated clothing and shoes. Wash clothing and shoes before re-use.

**INHALATION (Breathing):** Remove to fresh air. If symptoms develop, seek immediate medical attention. If not breathing, give artificial respiration.

**INGESTION (swallowing):** Seek medical attention. **Do Not** induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person.

**NOTES TO PHYSICIANS:** Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.

### 5. FIRE FIGHTING METHODS

Flash Point:	86°F 30°C	Method:	Tag Closed Cup
Explosive Limits:	LEL (%) 0.9	UEL(%)	10.5
Autoignition:	414°C		

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Smoke, soot, and toxic/irritating fumes (i.e., carbon dioxide, carbon monoxide, etc.). Oxides of nitrogen (NO, NO<sub>2</sub>, ...) Halogenated compounds, hydrogen chloride, hydrogen fluoride.

**FIRE AND EXPLOSION HAZARDS:** Flammable. High temperatures can cause sealed containers to rupture due to a build up of internal pressure. Cool with water. Vapors can travel to a source of ignition (flame, electric motor, hot surface, cigarette, etc. (and flash back. During a fire irritating and highly toxic gases may be generated during combustion or decomposition.

**EXTINGUISHING MEDIA:** SMALL FIRES: Dry chemical or carbon dioxide. LARGE FIRES: Water spray, fog, or foam.

**FIRE FIGHTING PROCEDURES/EQUIPMENT:** Fire fighters and others who may be exposed to the products of combustion should be equipped with NIOSH-approved positive pressure self-contained breathing apparatus (SCBA) and full protective clothing.

### 6. ACCIDENTAL RELEASE MEASURES

**EVACUATION:** Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Eliminate all sources of ignition.

**CONTAINMENT:** Safely stop discharge. Contain material, as necessary, with a dike or barrier. Stop material from contaminating soil, or from entering sewers or bodies of water.

**CLEAN-UP/PERSONAL PROTECTION EQUIPMENT:** Appropriate safety measures and protective equipment should be used. Use supplied air respirator or self-contained breathing apparatus in enclosed spaces or if airborne exposure limits can be exceeded. See Section 8.

**COLLECTION AND DISPOSAL:** Stop discharge, if safe to do so. Use proper protective equipment. Use non-sparking tools and/or explosion-proof equipment. Stop ignition sources. Cover spills with absorbent clay or sawdust and place in closed chemical waste containers. Dispose of according to applicable local, state and federal regulations.

**REPORTING:** Spills of this material in excess of a component's RQ must be reported to the National Response Center (1-800-424-8802) and to the appropriate state and local emergency response organizations.



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### 7. HANDLING AND STORAGE

**STORAGE CONDITIONS:** Store in cool, dry, well ventilated area away from heat, ignition sources, and direct sunlight. Keep containers tightly closed. **WARNING:** Hot organic chemical vapors or mists can suddenly and without warning combust when mixed with air. Ignition can occur at typical elevated temperature process conditions. Any use in such processes should be evaluated thoroughly to assure safe operating conditions.

**TRANSFER:** Containers should be supported and grounded before opening, dispensing, mixing, pouring, and emptying. Open with non-sparking tools. If container is warm, open bung slowly to release internal pressure.

**PERSONAL HYGIENE:** Wash thoroughly after handling, especially before eating, drinking, smoking, and using restroom facilities. Wash contaminated goggles face-shield, and gloves. Launder contaminated clothing before re-use .

**EMPTY CONTAINER PRECAUTIONS: Attention!** This container hazardous when empty. Follow label warnings even after container is emptied since empty containers may retain product residues. Do not use heat, sparks, open flames, torches, cigarettes on or near empty container. Do not reuse empty container without professional cleaning for food, clothing, or products for human or animal consumption or where skin contact can occur.

### 8. EXPOSURE: CONTROL/PERSONAL PROTECTION

#### EXPOSURE GUIDELINES:

##### ACGIH - TLV

4-Chlorobenzotrifluoride	4 ppm
Nitroethane	100 ppm

##### OSHA - PEL

4-Chlorobenzotrifluoride	4 ppm
Nitroethane	100 ppm

**ENGINEERING CONTROLS/VENTILATION:** Local exhaust ventilation is recommended when vapors, mists, or dusts can be released in excess of established airborne exposure limits (TLVs or PELs).

**EYE PROTECTION:** An eye wash facility should be readily available. Wear chemical splash goggles.

**SKIN PROTECTION:** Wear protective clothing, and appropriate impervious gloves. Because a variety of protective gloves exist, consult glove manufacturer to determine the proper type for a specific operation. An emergency shower should be readily available.

**RESPIRATORY PROTECTION:** Avoid breathing vapor and/or mists. Wear NIOSH/MSHA-approved equipment. Determine the appropriate type by consulting the respirator manufacturer. High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA) or a supplied air respirator. Respiratory protection programs must be in compliance with 29 CFR 1910.134.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear	Odor:	Nitroethane
Physical State:	Liquid	Solubility:	Slightly
pH:	Acidic	VOC Coating:	187 g/L (1.57 lbs./gal.)
VOC Material:	88 g/L (0.74 lbs./gal.)	Vapor density:	Heavier than air
Specific Gravity:	1.30	%Non-Vol.(w/w):	0.0

NOTE: The physical data presented above are typical values and should not be construed as a specification.



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### 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions of use.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: High temperatures.

INCOMPATIBILITY WITH OTHER MATERIALS: Oxidizers. Reducers. Strong bases. Amines

### 11. TOXICITY INFORMATION

COMPONENTS:

4-Chlorobenzotrifluoride:

Oral LD50	Rat	>6800	mg/kg
Oral LD50	Mouse	11,500	mg/kg
Vapor LC50 (4 hour)	Rat	4479	mg/kg
Dermal LD50	Rabbit	>2700	mg/kg

Nitroethane:

LD50	Mouse	850	mg/kg
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### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

LC50 (96 hour)	Rainbow Trout	13.5	mg/L
LC50 (96 hour)	Bluegill sunfish	12.0	mg/L
MATC (31 day)	Fathead Minnow	<1.4	mg/L
LC50 (48 hour)	Water Flea	12.4	mg/L
MATC (21 day)	Water Flea	<0.05	mg/L
IC50 (72 hour)	Green & Blue-green algae	500	mg/L

### 13. DISPOSAL CONSIDERATIONS

DISPOSAL: When a decision is made to discard this material as supplied, it meets RCRA's characteristic definition of ignitability.

GENERAL STATEMENTS: Federal regulations may apply to empty container. State and/or local regulations may be different.

GENERAL RECOMMENDATIONS: Of the methods of disposal currently available, it is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability: (1) recycle or rework, if feasible; (2) incinerate at an authorized facility; or (3) treat at an acceptable waste treatment facility.

SPECIAL INSTRUCTIONS: Be sure to contact the appropriate government environmental agencies if further guidance is required.



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14. TRANSPORT INFORMATION

Table with 5 columns: Weight (lb.), Shipping Name, 49 CFR, IATA, IMO. Rows include DOT Label (Flammable Liquid), Hazard Class (3), Packing Group (III), UN/NA Id Num (UN 1263), and USPS Mailability (No).

All the information in this section is for non-bulk packaging (119 gallons or less; 882 lbs. or less for solids).

15. REGULATORY INFORMATION

FEDERAL:

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

SARA Title III - Section 311/312 - Hazard Categories:

- Y - Fire Hazard
N - Sudden Release of Pressure Hazard
N - Reactivity Hazard
Y - Immediate (acute) Health Hazard
Y - Delayed (chronic) Health Hazard

Ozone-Depleting Chemicals - No regulated ingredients.

SARA Section 302 Extremely Hazardous Mat - none

SARA Section 313 Toxic Chemicals
Barium chromate
Chromium compounds

TSCA Section 8(d) Data Reporting Rule - None

STATE RIGHT-TO-KNOW:

Table with 3 columns: State/Region, Chemical Name, and Hazard Category. Rows include Pennsylvania - New Jersey R - T - K (Barium chromate, Environmental Hazard), Butyl Cellosolve (111-76-2, 10-15), and Non-hazardous trade secret ingredient(s) (Proprietary, Balance).

California - California Proposition 65 - None

CONEG - No data available.

CANADA:

This is a "controlled product" under the Canadian Workplace Hazardous Materials Information System (WHMIS).
Class B Division 2
Class D Division 2 Sub-division B

CEPA - NPRI
None



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### 16. OTHER INFORMATION

**USER RESPONSIBILITY:** A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions - in addition to those described herein - are required. Any health hazard and safety information herein should be passed on to your customers or employees, as the case may be.

**DISCLAIMER OF LIABILITY:** The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

**END OF MATERIAL SAFETY DATA SHEET**