



Material Safety Data Sheet

AC-[®] 502 Part A

MSDS No: 350210-01
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 A
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	3*	3
Fire	2	2
Reactivity	0	0
	* = Chronic	

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS #	Approximate % (w/w)
Barium chromate	10294-40-3	20 – 25
Butyl Cellosolve	111-76-2	10 – 15
Solvent naphtha (petroleum), Light aromatic	64742-95-6	10 – 15
Non-hazardous and other ingredients below reportable levels	Proprietary	Balance

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: COMBUSTIBLE LIQUID AND VAPOR. MAY CAUSE ALLERGIC SKIN REACTION. CAUSES SEVERE EYE IRRITATION. CAUSES SEVERE SKIN IRRITATION. CAUSES SEVERE 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 severe irritation. Can cause burning sensation, tearing, and redness.

SKIN CONTACT: Causes severe irritation. May be absorbed through the skin. 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): Severely 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
Barium chromate	A4	1	Yes	No
Butyl Cellosolve	No	No	No	No
Solvent naphtha (petroleum), Light aromatic	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. Get immediate 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. Get immediate medical attention. Professionally 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: 116°F 46.7°C
Explosive Limits: LEL (%) 1
Autoignition: Not Determined

Method: Setaflash Closed Cup
UEL(%) 10

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Smoke, soot, and toxic/irritating fumes (i.e., carbon dioxide, carbon monoxide, etc.). Low molecular weight hydrocarbons.

FIRE AND EXPLOSION HAZARDS: Combustible. 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. Professionally 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

Barium chromate	0.5	mg/M ³
Butyl Cellosolve	25	ppm
Solvent naphtha (petroleum), Light aromatic	Not	Available

OSHA - PEL

Barium chromate	0.1	mg/M ³ Ceiling
Butyl Cellosolve	25	ppm
Solvent naphtha (petroleum), Light aromatic	Not	Available

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:	Yellow	Odor:	Glycol ether
Physical State:	Liquid	Solubility:	Insoluble
pH:	Not Applicable	VOC:	389 g/L (3.28 lbs./gal.)
VOC Material:	389 g/L (3.28 lbs./gal.)	Vapor density:	Heavier than air
Specific Gravity:	1.52	%Non-Vol.(w/w):	73.9

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. Acids.

11. TOXICITY INFORMATION

COMPONENTS:

Butyl cellosolve:

Oral LD50	Rat	470	mg/kg
Oral LD50	Mouse	1230	mg/kg
Oral LD50	Rabbit	300	mg/kg
Dermal LD50	Rabbit	220	mg/kg
Dermal LD50	Guinea pig	230	mg/kg

Solvent naphtha (petroleum), light aromatic
LD50

None Available

Barium chromate:

Can cause liver, kidney, and reproductive injury. Possible skin and respiratory sensitizer. Chromate dusts have been shown to cause lung and other cancers in humans and laboratory animals. The product has the barium chromate fully encapsulated, so dusts are not anticipated.

LD50

None Available

12. ECOLOGICAL INFORMATION

No data are available on this product.

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/Category, Chemical Name, and Hazard/ID. Rows include Pennsylvania - New Jersey R - T - K, Barium chromate, Butyl Cellosolve, Solvent naphtha, and Non-hazardous trade secret ingredient(s).

California - California Proposition 65

WARNING: This product contains a chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

Table with 3 columns: Chemical Name, ID, and Hazard. Row: Barium chromate, 10294-40-3, 20 - 25, Cancer Hazard and Reproductive Hazard

* Trace = present at less than 0.01 percent.

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



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CEPA - NPRI

Barium chromate

Chromium compounds

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