



Issuing Date May 27, 2010

Revision Date May 27, 2010

Revision Number 06

1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** AC-®131 BB Part B  
**Product Code(s)** AC-131 BB Part B  
**UN-No** Not regulated  
**Recommended Use** Metal adhesion promoter .  
**Company** Advanced Chemistry & Technology, Inc.  
7341 Anaconda Avenue  
Garden Grove, CA 92841  
**Company Emergency Phone Number** 714-373-2837 (8 AM to 5 PM Pacific)  
**Emergency Telephone Number** Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

**CAUTION!**

**Emergency Overview**

**Appearance** Clear

Irritating to eyes, respiratory system and skin

**Physical State** Liquid

**Odor** Slight

**Potential Health Effects**

**Principle Routes of Exposure** Eye contact, Skin contact, Inhalation.

**Acute Toxicity**

**Eyes**

Moderately irritating to the eyes.

**Skin**

Prolonged or repeated contact may dry skin and cause irritation.

**Inhalation**

May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.

**Ingestion**

May cause additional affects as listed under "Inhalation". May be fatal or cause blindness if swallowed.

**Chronic Effects**

Prolonged exposure may cause chronic effects. Inhalation, ingestion, or skin absorbtion of methanol can cause blindness.

**Main Symptoms**

Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

**Aggravated Medical Conditions**

Liver disorders. Kidney disorders. Central nervous system.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Glycidoxypropyltrimethoxysilane	2530-83-8	99.8
Methyl alcohol	67-56-1	0.2

#### 4. FIRST AID MEASURES

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation persists.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Remove and wash contaminated clothing before re-use.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician. Apply artificial respiration if victim is not breathing.
<b>Ingestion</b>	Call a physician or Poison Control Center immediately. Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Induce vomiting, but only if victim is fully conscious.
<b>Notes to Physician</b>	Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

<b>Flash Point Method</b>	> 110 °C / > 230 °F Closed cup
<b>Suitable Extinguishing Media</b>	Dry chemical, CO <sub>2</sub> , alcohol-resistant foam or water spray.
<b>Hazardous Combustion Products</b>	Carbon monoxide, Carbon dioxide (CO <sub>2</sub> ).
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	Not sensitive.
<b>Sensitivity to Static Discharge</b>	Not sensitive.
<b>Specific Hazards Arising from the Chemical</b>	Thermal decomposition can lead to release of irritating gases and vapors.
<b>Protective Equipment and Precautions for Firefighters</b>	Standard procedure for chemical fires. Wear self contained breathing apparatus for fire fighting if necessary.
<b>NFPA</b>	<b>Health Hazard</b> 2 <b>Flammability</b> 1 <b>Stability</b> 1 <b>Physical and Chemical Hazards</b> N/A

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment. Keep people away from and upwind of spill/leak.
<b>Methods for Containment</b>	Dike far ahead of liquid spill for later disposal. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).
<b>Methods for Cleaning Up</b>	Soak up with inert absorbent material. Clean contaminated surface thoroughly.

#### 7. HANDLING AND STORAGE

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product.
<b>Storage</b>	Keep at temperatures between 5°C and 32°C. Keep in a dry, cool and well-ventilated place. Keep away from direct sunlight. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycidoxypropyltrimethoxysilane 2530-83-8			
Methyl alcohol 67-56-1	= 250 ppm STEL TWA: 200 ppm	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m <sup>3</sup> (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m <sup>3</sup> Skin	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> STEL: 325 mg/m <sup>3</sup> STEL: 250 ppm

### Personal Protective Equipment

#### Eye/Face Protection

Safety glasses with side-shields. Face-shield. Eye wash bottle with pure water.

#### Skin and Body Protection

Wear protective gloves/clothing.

#### Respiratory Protection

No protective equipment is needed under normal use conditions. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

### Hygiene Measures

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. General industrial hygiene practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear	<b>Odor</b>	Slight
<b>Physical State</b>	Liquid	<b>pH</b>	Not applicable
<b>Flash Point</b>	> 110 °C / > 230 °F	<b>Method</b>	Closed cup
<b>Autoignition Temperature</b>	No information available	<b>Boiling Point/Range</b>	No information available
<b>Explosion Limits</b>	No information available	<b>Flammability Limits in Air</b>	No information available
<b>Specific Gravity</b>	1.07	<b>Solubility</b>	No information available
<b>Evaporation Rate</b>	No information available	<b>Vapor Pressure</b>	1 mmHg @ 20°C
<b>Vapor Density</b>	Heavier than air	<b>Weight per Gallon (lbs)</b>	8.9
<b>Actual VOC (lb/gal)</b>	0.017	<b>EPA VOC (lb/gal)</b>	0.017
<b>EPA VOC (g/l)</b>	2		

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions.
<b>Incompatible Products</b>	Strong oxidizing agents.
<b>Conditions to Avoid</b>	Excessive heat.
<b>Hazardous Decomposition Products</b>	Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ).

**Hazardous Reactions** Hazardous polymerization does not occur.

**Hazardous Polymerization** Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Glycidoxypropyltrimethoxysilane	22600 µL/kg ( Rat )	3970 µL/kg ( Rabbit )	
Methyl alcohol	5628 mg/kg ( Rat )	15800 mg/kg ( Rabbit )	64000 ppm ( Rat ) 4 h 83.2 mg/L ( Rat ) 4 h

### Chronic Toxicity

**Chronic Toxicity** Prolonged exposure may cause chronic effects. Inhalation, ingestion, or skin absorption of methanol can cause blindness.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Methyl alcohol		LC50= 13200 mg/L Oncorhynchus mykiss 96 h LC50= 28100 mg/L Pimephales promelas 96 h	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	

Chemical Name	Log Pow
Methyl alcohol	= -0.77

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method** Can be incinerated, when in compliance with local regulations.

**Contaminated Packaging** Do not re-use empty containers. Dispose of in accordance with local regulations.

Chemical Name	California Hazardous Waste Status
Methyl alcohol	Toxic; Ignitable

14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>UN-No</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated

## 15. REGULATORY INFORMATION

International Inventories

TSCA	Listed
DSL	Listed
EINECS/ELINCS	Listed
ENCS	Listed
IECSC	Listed
KECL	Listed
PICCS	Listed
AICS	Listed

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Methyl alcohol	67-56-1	0.2	1.0

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Methyl alcohol	67-56-1	0.2	Present	Group IV		

**CERCLA**

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Methyl alcohol	5000 lb	

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Methyl alcohol	X	X	X	X	X

International Regulations

**Mexico - Grade** No information available.

Chemical Name	Carcinogen Status	Exposure Limits

Methyl alcohol		Mexico: TWA= 200 ppm Mexico: TWA= 260 mg/m <sup>3</sup> Mexico: STEL= 250 ppm Mexico: STEL= 310 mg/m <sup>3</sup>
----------------	--	--

Canada

WHMIS Hazard Class  
D2B Toxic materials



Chemical Name	NPRI
Methyl alcohol	X

16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol
			Not regulated

Prepared By David Jordan  
Director of R&D

Issuing Date May 27, 2010

Revision Date May 27, 2010

Revision Note (M)SDS sections updated. 9. 16.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS