



Issuing Date December 18, 2009

Revision Date December 17, 2009

Revision Number 05

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name AC-®131 4-Part Part C
Product Code(s) AC-131 4-Part Part C
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
 Irritating to eyes, respiratory system and skin

Appearance Clear	Physical State Liquid	Odor Slight
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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 absorption 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

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation persists.
Skin Contact	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.
Inhalation	Move to fresh air. If symptoms persist, call a physician. Apply artificial respiration if victim is not breathing.
Ingestion	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.
Notes to Physician	Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point Method	> 110 °C / > 230 °F Closed cup				
Suitable Extinguishing Media	Dry chemical, CO ₂ , alcohol-resistant foam or water spray.				
Hazardous Combustion Products	Carbon monoxide, Carbon dioxide (CO ₂)				
Explosion Data					
Sensitivity to Mechanical Impact	Not sensitive.				
Sensitivity to Static Discharge	Not sensitive.				
Specific Hazards Arising from the Chemical Thermal decomposition can lead to release of irritating gases and vapors.					
Protective Equipment and Precautions for Firefighters	Standard procedure for chemical fires. Wear self contained breathing apparatus for fire fighting if necessary.				
NFPA	<table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">Health Hazard 2</td> <td style="text-align: center;">Flammability 1</td> <td style="text-align: center;">Stability 1</td> <td style="text-align: right;">Physical and Chemical Hazards N/A</td> </tr> </table>	Health Hazard 2	Flammability 1	Stability 1	Physical and Chemical Hazards N/A
Health Hazard 2	Flammability 1	Stability 1	Physical and Chemical Hazards N/A		

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Keep people away from and upwind of spill/leak.
Methods for Containment	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).
Methods for Cleaning Up	Soak up with inert absorbent material. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling	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.
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Storage 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 ³ (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m ³ (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m ³ Skin	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 325 mg/m ³ 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

Appearance	Clear	Odor	Slight
Physical State	Liquid	pH	Not applicable
Flash Point	> 110 °C / > 230 °F	Method	Closed cup
Autoignition Temperature	No information available	Boiling Point/Range	No information available
Explosion Limits	No information available	Flammability Limits in Air	No information available
Specific Gravity	1.07	Solubility	No information available
Evaporation Rate	No information available	Vapor Pressure	1 mmHg @ 20°C
Vapor Density	Heavier than air	Weight per Gallon (lbs)	8.9
Actual VOC (lb/gal)	0.17	EPA VOC (lb/gal)	0.17

10. STABILITY AND REACTIVITY

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

May cause long-term adverse effects in the aquatic environment.

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	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Glycidoxypropyltrimethoxysilane - 2530-83-8				
Methyl alcohol - 67-56-1				

Chemical Name	California Hazardous Waste Status
Methyl alcohol	Toxic; Ignitable

14. TRANSPORT INFORMATION

DOT**UN-No**

Not regulated

Not regulated

IATA

Not regulated

IMDG/IMO

Not regulated

15. REGULATORY INFORMATION

International Inventories

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

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 ³ Mexico: STEL= 250 ppm Mexico: STEL= 310 mg/m ³

Canada

WHMIS Hazard Class
D2B Toxic materials



Chemical Name	NPRI
Methyl alcohol	X

16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol
			Not regulated

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Revision Note (M)SDS sections updated. 1. 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