



Issuing Date December 18, 2009

Revision Date December 17, 2009

Revision Number 06

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name AC-®131 CB Part A
Product Code(s) AC-131 CB Part A
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

Vapors may be irritating to eyes, nose, throat, and lungs

Appearance Clear

Physical State Liquid

Odor Vinegar-like

Potential Health Effects

Principle Routes of Exposure Skin contact, Inhalation

Acute Toxicity

Eyes

May cause slight irritation.

Skin

May cause irritation. Repeated exposure may cause skin dryness or cracking.

Inhalation

May cause irritation of respiratory tract. Avoid breathing vapors or mists.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects

Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

Main Symptoms

Redness. Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

Aggravated Medical Conditions

Skin disorders. Respiratory disorders. Mucous membrane.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % |
|------------------|---------|----------|
| Acetic acid | 64-19-7 | .4-.6 |
| n-Propyl alcohol | 71-23-8 | .2-.3 |

4. FIRST AID MEASURES

| | |
|-----------------------------------|--|
| General Advice | Do not breathe dust/fume/gas/mist/vapors/spray. |
| Eye Contact | Rinse thoroughly with plenty of water, also under the eyelids. |
| Skin Contact | Wash off immediately with plenty of water. If skin irritation persists, call a physician. |
| Inhalation | Move to fresh air. Consult a physician. |
| Ingestion | Consult a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. |
| Notes to Physician | Treat symptomatically. |
| Protection of First-aiders | Use personal protective equipment. |

5. FIRE-FIGHTING MEASURES

| | | | | |
|-----------------------------|-----------------------------------|-----------------------|--------------------|--|
| Flammable Properties | Not flammable. | | | |
| Flash Point Method | > 100 °C / > 212 °F Closed cup | | | |
| Explosion Data NFPA | Health Hazard 1 | Flammability 0 | Stability 0 | Physical and Chemical Hazards N/A |

6. ACCIDENTAL RELEASE MEASURES

| | |
|--------------------------------|--|
| Personal Precautions | Avoid contact with the skin and the eyes. Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. |
| Methods for Containment | Dike far ahead of spill to collect runoff water. 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. Pick up and transfer to properly labeled containers. |

7. HANDLING AND STORAGE

| | |
|-----------------|---|
| Handling | Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Do not breathe vapors/dust. |
| Storage | Keep tightly closed in a dry and cool place. Keep at temperatures between 5°C and 32°C. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|------------------------|------------------------------|--|--|
| Acetic acid 64-19-7 | = 15 ppm STEL TWA: 10 ppm | TWA: 10 ppm TWA: 25 mg/m ³ (vacated) TWA: 10 ppm (vacated) TWA: 25 mg/m ³ | IDLH: 50 ppm TWA: 10 ppm TWA: 25 mg/m ³ STEL: 15 ppm STEL: 37 mg/m ³ |

| | | | |
|-----------------------------|--------------|--|---|
| n-Propyl alcohol 71-23-8 | TWA: 100 ppm | TWA: 200 ppm TWA: 500 mg/m ³ (vacated) TWA: 200 ppm (vacated) TWA: 500 mg/m ³ (vacated) STEL: 250 ppm (vacated) STEL: 625 mg/m ³ | IDLH: 800 ppm TWA: 200 ppm TWA: 500 mg/m ³ STEL: 250 ppm STEL: 625 mg/m ³ |
|-----------------------------|--------------|--|---|

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection Safety glasses with side-shields.

Skin and Body Protection Wear protective gloves/clothing.

Respiratory Protection In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hygiene Measures Do not eat, drink or smoke when using this product. General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---------------------------------|--------------------------|-----------------------------------|---------------------------|
| Appearance | Clear | Odor | Vinegar-like |
| Physical State | Liquid | pH | 3.5 - 4.0 |
| Flash Point | > 100 °C / > 212 °F | Method | Closed cup |
| Autoignition Temperature | No information available | Boiling Point/Range | No information available |
| Freezing Point | 0 °C / 32 °F | Flammability Limits in Air | No information available |
| Explosion Limits | No information available | Water Solubility | Miscible with water |
| Specific Gravity | 1.0 | Evaporation Rate | No information available |
| Solubility | No information available | Vapor Density | No information available. |
| Vapor Pressure | No information available | Actual VOC (lb/gal) | 0 |
| Weight per Gallon (lbs) | 8.33 | EPA VOC (g/l) | 0 |
| EPA VOC (lb/gal) | 0 | | |

10. STABILITY AND REACTIVITY

| | |
|---------------------------------|--|
| Stability | Stable. |
| Incompatible Products | None known. |
| Conditions to Avoid | Do not freeze. |
| Hazardous Reactions | None under normal processing. |
| Hazardous Polymerization | Hazardous polymerization does not occur. |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|------------------|--------------------|-----------------------|-----------------------|
| Acetic acid | 3310 mg/kg (Rat) | 1060 mg/kg (Rabbit) | 11.4 mg/L (Rat) 1 h |
| n-Propyl alcohol | 1870 mg/kg (Rat) | | 13548 ppm (Rat) 4 h |

Chronic Toxicity

Chronic Toxicity Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Microtox | Daphnia Magna (Water Flea) |
|------------------|-------------------|--|---|----------------------------|
| Acetic acid | | LC50= 75 mg/L Lepomis macrochirus 96 h LC50= 88 mg/L Pimephales promelas 96 h | EC50 = 8.8 mg/L 15 min EC50 = 8.8 mg/L 25 min EC50 = 8.8 mg/L 5 min | EC50 = 95 mg/L 24 h |
| n-Propyl alcohol | | LC50= 4480 mg/L Pimephales promelas 96 h | EC50 = 17700 mg/L 5 min EC50 = 45000 mg/L 5 h EC50 = 8686 mg/L 15 min EC50 = 980 mg/L 12 h | EC50 = 3642 mg/L 48 h |

| Chemical Name | Log Pow |
|------------------|---------------|
| Acetic acid | = -0.31 20 °C |
| n-Propyl alcohol | 0.25 - 0.34 |

13. DISPOSAL CONSIDERATIONS

Contaminated Packaging 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 |
|----------------------------|--------------------------------------|------------------------|------------------------|------------------------|
| Acetic acid - 64-19-7 | | | | |
| n-Propyl alcohol - 71-23-8 | | | | |

| Chemical Name | California Hazardous Waste Status |
|------------------|-----------------------------------|
| Acetic acid | Toxic; Corrosive; Ignitable |
| n-Propyl alcohol | Toxic; Ignitable |

14. TRANSPORT INFORMATION

DOT Not regulated
UN-No 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.

SARA 311/312 Hazard Categories

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

Clean Water Act

| Component | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|--------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Acetic acid 64-19-7 (.4-.6) | 5000 lb | | | X |

| Chemical Name | CAS-No | Weight % | HAPS data | VOC Chemicals | Class 1 Ozone Depletors | Class 2 Ozone Depletors |
|---------------|---------|----------|-----------|---------------|-------------------------|-------------------------|
| Acetic acid | 64-19-7 | .4-.6 | | Group II | | |

CERCLA

| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances RQs |
|---------------|--------------------------|------------------------------------|
| Acetic acid | 5000 lb | |

U.S. State Regulations

| Chemical Name | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|------------------|---------------|------------|--------------|----------|--------------|
| Acetic acid | X | X | X | | X |
| n-Propyl alcohol | X | X | X | | X |

International Regulations

Mexico - Grade Slight risk, Grade 1



| Chemical Name | Carcinogen Status | Exposure Limits |
|------------------|-------------------|--|
| Acetic acid | | Mexico: TWA= 10 ppm Mexico: TWA= 25 mg/m ³ Mexico: STEL= 15 ppm Mexico: STEL= 37 mg/m ³ |
| n-Propyl alcohol | | Mexico: TWA= 200 ppm Mexico: TWA= 500 mg/m ³ Mexico: STEL= 250 ppm Mexico: STEL= 625 mg/m ³ |

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
Non-controlled

16. OTHER INFORMATION

| NFPA | HMIS | PPE | Transport Symbol | | | | | | |
|---|---|---------------|------------------|-------------|---|------------|---|--|---------------|
|  | <table border="1"> <tr> <td data-bbox="511 485 716 531">Health Hazard</td> <td data-bbox="716 485 792 531">1</td> </tr> <tr> <td data-bbox="511 531 716 577">Fire Hazard</td> <td data-bbox="716 531 792 577">0</td> </tr> <tr> <td data-bbox="511 577 716 623">Reactivity</td> <td data-bbox="716 577 792 623">0</td> </tr> </table> | Health Hazard | 1 | Fire Hazard | 0 | Reactivity | 0 |  | Not regulated |
| Health Hazard | 1 | | | | | | | | |
| Fire Hazard | 0 | | | | | | | | |
| Reactivity | 0 | | | | | | | | |

Prepared By David Jordan
Director of R&D

Issuing Date December 18, 2009

Revision Date December 17, 2009

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