



Issuing Date December 14, 2009

Revision Date December 11, 2009

Revision Number 04

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name AC-®130-2 Mixed
Product Code(s) AC-130-2 Mixed
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	0.4 - 0.6
n-Propyl alcohol	71-23-8	0.2 - 0.3

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
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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)	0.17
Weight per Gallon (lbs)	8.33		
EPA VOC (g/l)	2.1		

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 (0.4 - 0.6)	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	0.4 - 0.6		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

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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