

7341 Anaconda Avenue, Garden Grove, California 92841 714/ 373-2837 Fax 714/ 373-1913

## Material Safety Data Sheet AC-<sup>®</sup>130 Part A

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#### 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product ID: AC-130 Part A Generic Description: Acetic Acid Product Use: Adhesion Promoter

For customer service/technical information, contact: Advanced Chemistry & Technology, Inc. 7341 Anaconda Ave. Garden Grove CA 92841 – 2921 714 – 373 – 2837 HAZARD RATINGSHMISNFPAHealth3\*3\*Fire22Reactivity00\* = Chronic

SIN # 834-100

#### ChemTrec Emergency

1 - 800 - 424 - 9300

CARCINOCENICITY

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME Glacial Acetic Acid Non – hazardous and other ingredients below reportable levels

CAS # App 64-19-7 Proprietary

Approximate % (w/w) 100 Balance

#### **3. HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW: DANGER! FLAMMABLE AND CORROSIVE LIQUID AND VAPOR. MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN. CORROSIVE. LACHRYMATOR. CAUSES SEVERE EYE AND SKIN BURNS. CAUSES SEVER DIGESTIVE AND RESPIRATORY TRACT BURNS. MAY CAUSE SKIN SENSITIZATION BY SKIN CONTACT. See sections 3, 5, & 6.

PRIMARY ROUTES OF EXPOSURE: Eye. Skin. Inhalation (breathing).

EYE CONTACT: Causes severe eye irritation. May cause corneal opacity (clouding of the eye surface). Contact with liquid or vapor causes severe burns and possible irreversible eye damage. Lachrymator.

SKIN CONTACT: Causes skin burns. May cause skin sensitization. May be harmful if absorbed through the skin. Contact with the skin may cause blackening and hyperkeratosis of the skin of the hands.

INHALATION (Breathing): Effects may be delayed. Causes chemical burns to the respiratory tract. Exposure may lead to bronchitis, pharyngitis, and dental erosion. May be absorbed through the lungs.

INGESTION (Swallowing): May cause severe and permanent damage to the digestive tract. Causes severe pain, nausea, vomiting, diarrhea, and shock. May cause polyuria, oliguria and anuria. Rapidly absorbed from the gastrointestinal tract.

TARGET ORGANS/CHRONIC EFFECTS: Lungs and respiratory system. Eyes. Skin.

CONDITIONS AGGRAVATED BY EXPOSURE: Lungs and respiratory system. Skin.

	ACGIH	IARC	NTP	OSHA	



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Glacial Acetic Acid

#### 4. FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 30 minutes. Get medical attention immediately.

SKIN CONTACT: Immediately flush with water for 15 minutes. Remove contaminated clothing and shoes. Get medical attention immediately.Professionally wash clothing before re – use. Destroy contaminated shoes

INHALATION (Breathing): Get medical attention immediately. Remove to fresh air. If breathing is difficult, give oxygen. Do not give mouth-to-mouth respiration. If not breathing, give artificial respiration using oxygen or mechanical devises.

INGESTION (Swallowing): Seek medical attention. DO NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. 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:	39°C (102.2°F)	Method:	Closed cup
Explosive Limits:	LEL(%) 4.0	UEL(%)	19.9
Autoignition:	426°C		

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

FIRE AND EXPLOSION HAZARDS: 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, carbon dioxide, halon, water spray, or foam. LARGE FIRES: Water spray, fog, or alcohol 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. Use dry soda ash or calcium carbonate to cover material and place in



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closed chemical waste containers. Wash area with soap and water. 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.

RQ= 5000 lbs.

#### 7. HANDLING AND STORAGE

Storage Temperature: between 62° - 102°F/ 17° - 39°C

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 rest room facilities. Wash contaminated goggles face shield, and gloves. Professionally launder contaminated clothing before re – using.

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 CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

ACGIH – TLV		
Acetic acid	10	ppm.
ACGIH – STEL		
Acetic acid	15	ppm
OSHA – PEL		
Acetic acid	10	ppm
OSHA – TWA		
Acetic Acid	25	ppm

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: Wear chemical splash goggles. An eye wash facility should be readily available.

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.

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.



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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colorless	Odor	Pungent
Physical State	Liquid	Solubility	Complete
pH	2.4	VOC Material, g/l	1050
Specific Gravity	1.05	% Non – Vol(w/w)	0.1
Vapor Pressure	11.4 mm Hg	Vapor Density	2.11
Evaporation Rate	0.97 (butyl acetate = 1.0)		

NOTE: The physical data presented above are typical values or

NOTE: The physical data presented above are typical values and should not be construed as a specification.

#### **10. STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable under normal conditions of use.

HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID: High temperatures, and incompatible materials.

INCOMPATIBILITY WITH OTHER MATERIALS: Oxidizers. Bases both organic and inorganic.

#### **11. TOXICITY INFORMATION**

#### COMPONENTS:

Acetic Acid		
LD/LC 50	Inhalation, Mouse, LC50	5620 ppm/1hour
	Oral, Rat, LD50	3310 mg/kg
	Skin, Rabbit, LD50	1060 mg/kg

#### **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.

#### **14. TRANSPORT INFORMATION**

Weight (lb.)	Shi Ace	pping Name etic Acid, Glacial	49	CFR Y	IATA Y	IMO Y
DC Haza	OT Label ard Class	Acetic Acid, Glacial 8	UN/NA Id Number Packing Group	UN278 II	9	



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#### **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 N - Pressure N - Reactivity Y - Acute Y - Chronic

Ozone - Depleting Chemicals - No regulated ingredients.

SARA Section 302 Extremely Hazardous Mat - No regulated ingredients.

SARA Section 313 Toxic Chemicals-None

TSCA Section 12(b) Export Notification-None

TSCA Section 8(d) Data Reporting Rule-None

CHEMICAL LISTING - Listed on the following Country's Chemical Inventories:

United States	Toxic Substance Control Act
Europe	EINECS
Canada	DSL/NDSL

Chemical component(s) in this product are on the section 8(b) Chemical Substance Inventory List (40 CFR 710).

STATE RIGHT - TO - KNOW:

Pennsylvania - New Jersey R - T - K COMMON NAME Acetic Acid, Glacial Non - hazardous and other ingredients below reportable levels

CAS # 64-19-7 Proprietary Approximate % (w/w) 100 Balance

California - California Proposition 65 - No regulated ingredients.

CONEG - No data available.

CANADA:

This is a "controlled product" under the Canadian Workplace Hazardous Materials Information System (WHMIS). Class B Division 3 Class E Class D Division 2 Sub - division A

CEPA - NPRI



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#### **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 thereunder 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