



Material Safety Data Sheet

Propiolic acid

MSDS# 92267

Section 1 - Chemical Product and Company Identification

MSDS Name: Propiolic acid  
Catalog Numbers: AC131500000, AC131500100, AC131500250, AC131501000  
Synonyms: Propargylic acid, 2-Propynoic acid, Acetylenecarboxylic acid.

Company Identification: Acros Organics BVBA  
Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium

Company Identification: (USA) Acros Organics  
One Reagent Lane  
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01  
For information in Europe, call: +32 14 57 52 11  
Emergency Number, Europe: +32 14 57 52 99  
Emergency Number US: 201-796-7100  
CHEMTREC Phone Number, US: 800-424-9300  
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

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CAS#: 471-25-0  
Chemical Name: Propiolic acid  
%: 98  
EINECS#: 207-437-8  
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Hazard Symbols: T



Risk Phrases: 24/25 34

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Danger! Causes burns by all exposure routes. Toxic if swallowed. Toxic if absorbed through the skin. Combustible liquid and vapor. Target Organs: Central nervous system, respiratory system, gastrointestinal system, eyes, skin.

Potential Health Effects

Eye: Causes eye burns. Lachrymator (substance which increases the flow of tears).  
Skin: Causes skin burns. Toxic in contact with skin.  
Ingestion: Causes gastrointestinal tract burns. Toxic if swallowed.  
Inhalation: Causes chemical burns to the respiratory tract. May be harmful if inhaled.  
Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**Skin:** Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** Do not induce vomiting. Get medical aid immediately. Call a poison control center.

**Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

**Notes to Physician:**

### Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Combustible liquid and vapor.

**Extinguishing Media:** Use foam, dry chemical, or carbon dioxide.

**Autoignition Temperature:** Not applicable.

**Flash Point:** 58 deg C ( 136.40 deg F)

**Explosion Limits:** Not available  
Lower:

**Explosion Limits:** Not available  
Upper:

**NFPA Rating:** health: 3; flammability: 2; instability: 0;

### Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Remove all sources of ignition. Use a spark-proof tool. Do not let this chemical enter the environment.

### Section 7 - Handling and Storage

**Handling:** Use spark-proof tools and explosion proof equipment. Do not get in eyes, on skin, or on clothing. Keep away from heat, sparks and flame. Do not ingest or inhale. Use only in a chemical fume hood.

**Storage:** Keep away from sources of ignition. Store in a tightly closed container. Store in a dry area. Flammables-area. Keep refrigerated. (Store below 4°C/39°F.)

### Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Propiolic acid	none listed	none listed	none listed

OSHA Vacated PELs: Propiolic acid: None listed

**Engineering Controls:**

Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood.

**Exposure Limits**

**Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

## Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: clear colorless to brown

Odor: Not available

pH: Not available

Vapor Pressure: Not available

Vapor Density: 2.42

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: 153 - 157 deg C @ 760 mmHg

Freezing/Melting Point: 16 deg C ( 60.80°F)

Decomposition Temperature: Not available

Solubility in water: miscible

Specific Gravity/Density: 1.130 g/cm<sup>3</sup>

Molecular Formula: C<sub>3</sub>H<sub>2</sub>O<sub>2</sub>

Molecular Weight: 70.04

## Section 10 - Stability and Reactivity

Chemical Stability:	Stable under normal temperatures and pressures.
Conditions to Avoid:	Incompatible materials, ignition sources, excess heat.
Incompatibilities with Other Materials	Strong oxidizing agents, strong reducing agents.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide.
Hazardous Polymerization	Has not been reported.

## Section 11 - Toxicological Information

RTECS#: CAS# 471-25-0: UD9300000

RTECS:

**CAS# 471-25-0:** Dermal, guinea pig: LD50 = 100 mg/kg;

LD50/LC50: Oral, mouse: LD50 = 100 mg/kg;

Oral, rat: LD50 = 100 mg/kg;

Carcinogenicity: Propiolic acid - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

## Section 12 - Ecological Information

Other: Do not empty into drains.

## Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

## Section 14 - Transport Information

US DOT

Shipping Name: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.

Hazard Class: 3

UN Number: UN3286

Packing Group: II

Canada TDG

Shipping Name: Not available

Hazard Class:

UN Number:

Packing Group:

## Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Risk Phrases:

R 24/25 Toxic in contact with skin and if swallowed.

R 34 Causes burns.

Safety Phrases:

S 16 Keep away from sources of ignition - No smoking.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 471-25-0: Not available

Canada

CAS# 471-25-0 is listed on Canada's NDSL List

Canadian WHMIS Classifications: B3, E, D1B

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

CAS# 471-25-0 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 471-25-0 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 9/02/1997

Revision #9 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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