

Section 1. Product and Company Identification

**Product Name** 2-Butynoic Acid  
**CAS Number** 590-93-2

**Parchem - fine & specialty chemicals**  
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**New Rochelle, NY 10801**  
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Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

Skin corrosion/irritation (Category 18)  
Serious eye damage/eye irritation (Category 1)

**GHS Label Elements**

**Pictograms:**



**Signal word:** DANGER

**Hazard and precautionary statements**

**Hazard Statements**

H314 Causes severe skin burns and eye damage  
H318 Causes serious eye damage

**Precautionary Statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



Section 3. Composition / Information on Ingredients

**Common Name** 2-Butynoic Acid  
**Synonym(s)** Tetrolic Acid  
**Formula** C<sub>4</sub>H<sub>4</sub>O<sub>2</sub>  
**CAS Number** 590-93-2

COMPONENT	CAS NUMBER	CONCENTRATION
2-Butynoic Acid	590-93-2	98%

Section 4. First Aid Measures

**Eye Contact:** Immediately flush eyes with running water for at least 15 minutes while keeping eyes open. Seek medical attention.

**Skin Contact:** Wash thoroughly with soap and plenty of water. Seek medical attention.

**Inhalation:** Remove victim from source of exposure to fresh air. If breathing is difficult, administer oxygen. Seek medical attention.

**Ingestion:** Do not induce vomiting. Give water to victim to drink. Seek medical attention.

Section 5. Firefighting Measures

**Suitable extinguishing media:** Use carbon dioxide, dry chemical powder, alcohol-resistant, or polymer foam.

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Unusual fire and explosion hazards/decomposition of product:** Emits toxic fumes under fire conditions.

Section 6. Accidental Release Measures

**Personal precautions:** Use personal protective equipment Avoid breathing fumes, vapors, mists, or gas. Ventilate area. Remove all sources of ignition. Evacuate personnel.

**Environmental precautions:** Prevent further leakage if safe to do so.

**Methods and materials for containment and clean up:** Absorb spills on sand or vermiculite and place in closed container for disposal.

Section 7. Handling and Storage

**Precautions for safe handling:** Avoid prolonged use. Avoid all direct contact with material. Do not breathe dust or vapor. Wash thoroughly after handling.

**Precautions for safe storage:** Keep container tightly closed. Store in a cool, dry, well-ventilated area.

#### Section 8. Exposure Controls / Personal Protection

Contains no substances with occupational exposure limit values.

##### **Personal protective equipment**

**Eye/face protection:** Wear protective safety goggles or face shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Hand/skin protection:** Avoid all direct contact with product. Wear chemical-resistant gloves. Wear protective clothing and boots. After contact with skin, wash immediately.

**Respiratory protection:** Ensure adequate ventilation during use. Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the exposure limits.

#### Section 9. Physical and Chemical Properties

**Appearance:** Light-yellow solid

**Odor:** No data available

**Odor Threshold:** No data available

**Melting point/Freezing Point:** 74 - 76°C

**Boiling Point:** 203°C

**Flash Point:** No data available

**Evaporation Rate:** No data available

**Flammability (solid, gas):** No data available

**Upper/Lower Flammability or Explosive limits:** No data available

**Vapor pressure:** No data available

**Relative Density:** No data available

**Solubility(ies):** No data available

**Partition coefficient (n-Octanol/water):** No data available

**Auto-ignition temperature:** No data available

**Decomposition temperature:** No data available

**Viscosity:** No data available

**Refractive Index:** No data available

#### Section 10. Stability and Reactivity

**Chemical stability:** Stable under recommended storage conditions.

**Possibility of hazardous reactions:** no data available

**Conditions to avoid:** no data available

**Incompatible materials:** Strong oxidizing agents, strong acids, and strong bases.

**Hazardous decomposition products:** May evolve carbon monoxide and carbon dioxide.

#### Section 11. Toxicological Information

**Acute toxicity:** No data available

**Skin corrosion/irritation:** Causes severe skin burns and eye damage



**Serious eye damage/eye irritation:** Causes serious eye damage  
**Respiratory or skin sensitization:** No data available  
**Germ cell mutagenicity:** No data available  
**Carcinogenicity:** No data available  
**Reproductive toxicity:** No data available  
**STOT -Single exposure:** No data available  
**STOT-repeated exposure:** No data available  
**Aspiration hazard:** No data available  
**Exposure Routes:** Causes burns. May have harmful effects if inhaled or swallowed.

To the best of our knowledge, the health hazards of this material have not been fully investigated.

#### Section 12. Ecological Information

**Toxicity:** No data available  
**Persistence and degradability:** No data available  
**Bioaccumulative potential:** No data available  
**Mobility in soil:** no data available  
**PBT and vPvB assessment:** no data available  
**Other adverse effects:** no data available

#### Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

#### Section 14. Transport Information

##### DOT

**Proper Shipping Name:** Corrosive Solid, Acidic, Organic, N.O.S.  
**Hazard Class:** Class 8  
**UN Number:** UN3261  
**Packing Group:** PG II

##### IMDG

**Proper Shipping Name:** Corrosive Solid, Acidic, Organic, N.O.S.  
**Hazard Class:** Class 8  
**UN Number:** UN3261  
**Packing Group:** PG II  
**EMS-No:** F-A, S-8  
**Marine Pollutant:** No



**IATA**

**Proper Shipping Name:** Corrosive Solid, Acidic, Organic, N.O.S.

**Hazard Class:** Class 8

**UN Number:** UN3261

**Packing Group:** PG II

Section 15. Regulatory Information

**SARA 302 Components: SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components: SARA 313:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

**New Jersey Right to Know Components:** This product may contain a chemical on the New Jersey Right to Know Components List.  
2-Butynoic acid (CAS# 590-93-2)

**California Prop. 65 Components:** This product may contain a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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