

Matrix Scientific

PO BOX 25067

COLUMBIA, SC 29224-5067

Telephone: 803-788-9494

Fax: 803-788-9419

SAFETY DATA SHEET

Transportation Emergency: 3E Co. (5025) 800-451-8346

1. Product Identification

Name 2,2-Difluoropent-4-enoic acid
Catalog Number 024692
CAS Registry Number [55039-89-9]
Company Matrix Scientific
Physical Address 131 Pontiac Business Center Drive
Elgin, SC 29045
USA
Telephone/Fax (803)788-9494/(803)788-9419

2. Hazard Identification

Hazardous Ingredients 2,2-Difluoropent-4-enoic acid

GHS label elements, including precautionary statements

Pictogram



Signal word DANGER

Hazard statement(s)

H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P501 Dispose of contents/container to ... [... in accordance with local/regional/national/international regulation (to be specified)].

3. Composition, Information or Ingredients

Name 2,2-Difluoropent-4-enoic acid

4. First Aid Measures

Eye Contact:	Check for and remove any contact lenses. Immediately flush eyes with clean, running water for at least 15 minutes while keeping eyes open. Cool water may be used. Seek medical attention.
Skin Contact:	After contact with skin, wash with generous quantities of running water. Gently and thoroughly wash affected area with running water and non-abrasive soap. Cool water may be used. Cover the affected area with emollient. Seek medical attention. Wash any contaminated clothing prior to reusing.
Inhalation:	Remove the victim from the source of exposure to fresh, uncontaminated air. If victim's breathing is difficult, administer oxygen. Seek medical attention.
Ingestion:	Do NOT induce vomiting. Give water to victim to drink. Seek medical attention.

5. Fire-Fighting Measures

Extinguishing media:	Carbon dioxide, dry chemical powder, alcohol or polymer foam.
Special fire fighting procedures:	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.

6. Accidental Release Measures

Steps to be taken if material is spilled or otherwise released into the environment - Wear Appropriate respirator, impervious boots and heavy rubber (or otherwise impervious) gloves. Scoop up solid material or absorb liquid material and place into appropriate container. Ventilate area and wash affected spill area after pickup is complete. Wash skin immediately with plenty of water. Place solid or absorbed material into containers and close for disposal.

7. Handling and Storage

Avoid prolonged exposure.
Use caution when handling.
Exposure to any chemical should be limited.
Do not breath dust or vapor.
Have safety shower and eye wash available.
Do not get in eyes, on skin or on clothing.
Keep container tightly closed.
Store in a cool, dry, well-ventilated place.
Ensure adequate ventilation during use.

Use only in a chemical fume hood.

To the best of our knowledge, the health hazards of this product have not been fully investigated.
This product is provided solely for the purpose of research and development.

8. **Exposure Controls and Personal Protection**

Wear Protective safety goggles.
Wear chemical-resistant gloves.
Wear protective clothing and chemical resistant boots.
Ensure ventilation during use.
After contact with skin, wash immediately.

9. **Physical and Chemical Properties**

Appearance: liquid
Molecular Formula: C₅H₆F₂O₂
Molecular Weight: 136.10
Boiling point (C): 56-58°/0.3mm

10. **Stability and Reactivity**

Incompatibilities: Strong oxidizing agents
Strong acids and bases

Hazard Decomposition Products

Carbon carbon monoxide
carbon dioxide

Fluorine hydrogen fluoride

11. **Toxicological Information**

Acute effects:

Irritant

May be harmful by ingestion and inhalation.

Material is irritating to mucous membranes and upper respiratory tract.

To the best of our knowledge, the toxicological properties of this product have not been fully investigated or determined.

12. **Ecological Information**

Mobility: Data not known
Persistence and degradability: No data available
Cumulative potential: No data available
Other adverse effects: No data available

13. **Disposal Considerations**

Absent other actions demanded by federal or local regulations - Dissolve or mix the material with a combustible solvent and burn in a regulated, chemical incinerator equipped with after burner and scrubber.

Observe all federal, state and local laws.

14. Transport Information

Shipping Name Corrosive liquid, acidic, organic, n.o.s
Class / Sub-Class 8
UN Number UN3265
Packing Group II
Inhalation Hazard Zone

15. Regulatory Information

Adhere to all Federal, State and local regulations.

16. Other Information

The information contained herein is accurate to the best of our knowledge, but is not meant to be complete and is included only as a guide. The end user is responsible for any damage resulting from handling or from contact with this product.