



## SAFETY DATA SHEET

Generic SDS (EU) - No country specific data

Version 3.8. Revision Date 06.02.2015

Issued on 2022.11.21

### 1. PRODUCT AND COMPANY IDENTIFICATION

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#### 1.1 Product identifiers

Product Name:	4,4-difluoro-3,3-dimethylbutanoic acid
Product Catalogue Number:	EN300-191089
EC number:	N/A
REACH No.:	A registration number for this substance / mixture is not available. The substance is exempted from registration as the annual tonnage does not require a registration or registration is envisaged for a later registration deadline.

CAS-No.:	1892397-17-9
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Alias product code(s):	N/A
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#### 1.2 Recommended use of the substance and restrictions on use

Recommended use:	Laboratory chemicals, research and development use only.
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#### 1.3 Supplier's details

Company:	ENAMINE Ltd.78 Chervonotkatska Street02094 KyivUkraine
Telephone:	+38 044 495 88 17
Fax:	+380 44 5373253
E-mail address:	SDS@enamine.net

### 2. HAZARDS IDENTIFICATION

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#### 2.1 Classification of the substance / mixture

Classification according to Regulation (EC) No 1272/2008

Skin corrosion/irritation(Category 2), H315

Serious eye damage/eye irritation(Category 1), H318

Specific target organ toxicity, single exposure; Respiratory tract irritation(Category 3), H335

For the full text of the H-Statements mentioned in this Section, see Section 2.2.

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#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Pictogram:



Signal word: Danger

Hazard statement(s):

- H315 Causes skin irritation  
H318 Causes serious eye damage  
H335 May cause respiratory irritation

Precautionary statements:

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling. Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: wash with plenty of soap and water.  
P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P332+P313 IF SKIN irritation occurs: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3 Other hazards

N/A

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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### 3.1 Substances

Synonyms:	N/A
Formula:	C6H10F2O2
Molecular Weight:	152.1392
CAS-No.:	1892397-17-9

EC number N/A

Hazardous ingredients according to Regulation (EC) No 1272/2008

**Component:** 4,4-difluoro-3,3-dimethylbutanoic acid

**Classification:**

Skin corrosion/irritation (Category 2), H315  
Serious eye damage/eye irritation (Category 1), H318  
Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3), H335

**Concentration, %:** N/A

For the full text of the H-Statements mentioned in this Section, see Section 2.2.

## 4. FIRST AID MEASURES

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### 4.1 Description of first aid measures

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.

**Inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.

**Skin contact:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

**Eye contact:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

## 5. FIREFIGHTING MEASURES

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### 5.1 Suitable extinguishing media

Sand, carbon dioxide, dry chemical powder, or appropriate foam.

### 5.2 Specific hazards arising from the substance or mixture

May emit toxic fumes under fire conditions including Carbon monoxide, Carbon dioxide, Hydrogen fluoride.

### 5.3 Special protective equipment and precautions for firefighters

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: remove movable containers if safe to do so.

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## **6. ACCIDENTAL RELEASE MEASURES**

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### **6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### **6.3 Methods and materials for containment and cleaning up**

Wipe dry, place a rag in a bag and hold for waste disposal. Avoid fumes inhaling. Ventilate area and wash spill site after material pickup is complete.

## **7. HANDLING AND STORAGE**

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### **7.1 Precautions for safe handling**

Handling is performed in a well ventilated place. Wear suitable protective equipment. Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Wash hands and face thoroughly after handling.

### **7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed and upright. Avoid overheating. Store in a dry and well-ventilated place at RT.

### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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### **8.1 Control parameters**

Components with workplace control parameters

N/A

### **8.2 Appropriate engineering controls**

Install a closed system or local exhaust so that workers should not be exposed directly.

Install safety shower and eye bath.

Wash hands thoroughly after handling.

### **8.3 Personal protective equipment**

Respiratory Protection: Government approved respirator.

Skin Protection: Compatible chemical-resistant gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands.

Eye/Face Protection: Government approved eye/face protection equipment.

Body protection: Protective clothing. Protective boots, if the situation requires.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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Property Value At Temperature or Pressure

## Appearance (20°C)

Physical state:	crystals
Odour:	N/A
Colour:	yellow
pH:	N/A
Melting point/freezing point (°C):	N/A
Initial boiling point and boiling point range (°C):	N/A
Flash Point (°C):	N/A
Vapour pressure:	N/A
Vapour density:	N/A
Relative density (g/ml):	
Partition coefficient: n-octanol/water:	0.808
Auto-ignition temperature (°C):	N/A
Viscosity:	N/A
Flammability:	N/A
Explosive properties:	N/A
Oxidizing properties:	N/A
Water solubility:	N/A
Evaporation rate:	N/A
Refractive index:	N/A

## 10. STABILITY AND REACTIVITY

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### 10.1 Chemical stability

Stable under specified storage temperature.

### 10.2 Possibility of hazardous reactions

No data available

### 10.3 Conditions to avoid

No data available

### 10.4 Incompatible materials

Strong oxidizing agents.

### 10.5 Hazardous decomposition products

Carbon monoxide, Carbon dioxide, Hydrogen fluoride

## 11. TOXICOLOGICAL INFORMATION

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N/A

Toxicological properties were not fully evaluated.

## 12. ECOLOGICAL INFORMATION

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N/A

## 13. DISPOSAL CONSIDERATIONS

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Substance disposal: Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations

Contaminated packaging disposal: Dispose of as unused product

## 14. TRANSPORT INFORMATION

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### 14.1 UN number

ADR/RID: -

IMDG: -

IATA: -

### 14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

### 14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

### 14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

### 14.5 Environmental hazards

ADR/RID: no

IMDG: no

IATA: no

### 14.6 Special precautions for user

No data available

## 15. REGULATORY INFORMATION

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This safety datasheet complies with the requirements of Regulations (EC) No. 1907/2006 and No. 1272/2008.

### 15.1 Safety, health and environmental regulations specific for the substance or mixture

No data available

### 15.2 Chemical Safety Assessment

For this product no chemical safety assessment was carried out at Enamine Ltd.

## 16. OTHER INFORMATION

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### Further information

For R&D use only. Not for drug, household or other uses.

This is an experimental product whose properties are not fully evaluated yet. The information contained herein is based on the present state of our knowledge and therefore does not guarantee certain properties. Recipients of the product must take responsibility for observing existing laws and regulations.

End of Safety Data Sheet