

According to regulation (EC) No. 453/2010

Revision Date: 01.06.2021 Creation date: 01.06.2021

Version:1.0.1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 **Product identifiers** 

Product name: Ethyl Difluoroazidoacetate

**CF Plus Chemicals** Brand:

Cat. No.: FAZ008 CAS No.: 153755-61-4

1.2 Relevant identified use of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Manufacture of

substances

1.3 Details of the supplier of the safety data sheet

Company: CF Plus Chemicals, s.r.o.

Karásek 1767/1

621 00 Brno – Řečkovice

Czech Republic +420 606 117 375 sales@cfplus.cz

1.4 Emergency telephone number

Telephone:

E-mail address:

Emergency phone: +420 228 880 039 (CHEMTREC)

> +420 224 919 293 / +420 224 915 402 (Toxicological Information Centre)

#### **SECTION 2: Hazard identification**

#### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008

Skin irrit. (Category 2), H315 Serious eye irritation (Category 2), H319 STOT – SE, Respiratory tract irritation H335

(Category 3),

For the full text of the H-statements mentioned in this Section, see Section 16.

#### 2.2 Label elements

## Labelling according Regulation (EC) No. 1272/2008

Pictogram

Signal word Dange

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No

smoking.

P261 Avoid breathing

dust/fume/gas/mist/vapours/spray.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

5.1 Substances	
Synonyms:	Ethyl 2,2-difluoro-2-azidoacetate, Ethyl 2-azido-2,2-difluoroacetate, 2-azido-2,2-
	difluoroacetic acid ethyl ester
Formula:	C4H5F2N3O2
Molecular weight:	165.99 g/mol
CAS-No.:	153755-61-4

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

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

# 4.3 Indication of any immediate medical attention and special treatment needed No data available.

### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

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

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

May emit toxic fumes under fire conditions including Carbon monoxide, Carbon dioxide, Nitrogen oxides. Danger of containers bursting upon heating

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 5.4 Further information

No data available.

#### **SECTION 6: Accidental release measures**

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. 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.

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

Contain spillage and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

#### 6.4 Reference to other sections

For disposal see section 13.

# **SECTION 7: Handling and storage**

#### 7.1 Precautious for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

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

Store in a freezer. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature -20 °C. Handle and store under inert gas. Heat, air and moisture sensitive. Work with precooled reagents.

#### 7.3 Specific end uses

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

# **SECTION 8: Exposure controls/personal protections**

#### 8.1 Control parameters

No data available

#### 8.2 Exposure control

#### **Appropriate engineering controls**

Handle with accordance with good industrial hygiene and safety practice. Wash hands before breaks at the end of workday.

#### Personal protective equipment

### **Eye/face protection**

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

#### Skin protection

Handle with 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. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and muse be evaluated by an industrial hygienist and safety officer familiar with specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### **Body protection**

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Appearance

a)	Form	Solid
b)	Colour	White to off-white
c)	Odour	No data available
d)	Odour Threshold	No data available

e) pH
No data available
f) Melting point/Freezing point
No data available
No data available

g) Initial boiling point and boiling range
h) Flash point
i) Evaporation rate
j) Flammability (solid, gas)
k) Upper/lower flammability
No data available
No data available
No data available
No data available

or explosive limits

1) Vapour pressure No data available m) Vapour density No data available n) Relative density No data available o) Water solubility No data available p) Partition coefficient: n-octanol/water No data available q) Auto-ignition temperature No data available r) Decomposition temperature No data available s) Viscosity No data available t) Explosive properties Non explosive

Other safety information

u) Oxidizing properties

Surface pension No data available Relative vapour density No data available

# **SECTION 10: Stability and reactivity**

#### 10.1 **Reactivity**

Reactive towards reducing agents, low valent transition metal compounds, metals, bases, thiols and other good nucleophiles.

No data available

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Avoid contact with strong oxidizing agent, strong reductants, metals, acids and bases.

#### 10.4 Conditions to avoid

Heat, flame, sparks.

#### 10.5 Incompatible materials

Reductants, acids and bases, metals, low valent transition metal compounds.

#### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions – carbon oxides, nitrogen oxides, hydrogen fluoride.

In the event of fire: see section 5.

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Acute toxicity

Skin corrosion/irritation

Serious eye damage/eye irritation

Respiratory or skin sensitisation

Germ cell mutagenetic

No data available.

No data available.

No data available.

Carcinogenicity IARC: No component of this product

present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Specific target organ toxicity – single

No data available.

No data available

exposure

Potential health effects- Inhalation May be harmful if inhaled. Causes

respiratory tract irritation.

Potential health effects- Ingestion May be harmful if swallowed.

Potential health effects- Skin May be harmful if absorbed through skin.

Potential health effects- Eyes Causes serious eye irritation.

Specific target organ toxicity – repeated No data available.

exposure

Aspiration hazard No data available.

Additional Information RTECS: No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have

not been thoroughly investigated.

# **SECTION 12: Ecological information**

12.1 **Toxicity** No data available.

12.2 **Persistence and degradability**No data available.

12.3 **Bioaccumulative potential** No data available.

12.4 **Mobility in soil** No data available.

12.5 **Results of PBT and vPvB**PBT/vPvB assessment not available as

assessment chemical safety assessment not

required/not conducted.

12.6 **Other adverse effects** No data available.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but extra care in igniting as the material is highly flammable.

#### Contaminated packaging

Dispose of as unused product.

# **SECTION 14: Transport information**

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: Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available.

# **SECTION 15: Regulatory information**

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

Regulation (EC) No. 1907/2006 (REACH)

Regulation (EC) No. 1907/2008 (CLP)

Regulation (EC) No. 453/2010

Regulation (EU) No. 830/2015

#### 15.2 Chemical safety assessment

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection.

#### **SECTION 16: Other information**

#### a) Changes in the revision

1	T • 4	e 11	• 4•
b.	) List	of abt	oreviations

CAS Chemical Abstracts Service MSDS Material Safety Data Sheet

IARC International Agency for Research on

Cancer

RTECS Registry of Toxic Effects of Chemical

Substances

PBT/vPvB (persistant, bioacumulative and toxis)

(very persistant and very bioacumulative)

ADR/RID European Agreements Concerning the

International Carriage of Dangerous

Goods by Rail (RID) and Road (ADR)
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods

Code

STOT – SE Specific target organ toxicity – single

exposure

#### c) Full text of H and P Statements referred to under sections 2 and 3.

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

P210 Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No

smoking.

P261 Avoid breathing

dust/fume/gas/mist/vapours/spray.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water

for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

# **FUTHER INFORMATION**

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