

According to regulation (EC) No. 453/2010

Revision Date: 13.04.2021 Creation date: 13.04.2021

Version:1.0.1

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

1.1 Product identifiers

Product name: **DIFLUOROETHYL AZIDE 0.5M**

> **SOLUTION IN 1,2-DIMETHOXYETHANE**

Brand: **CF Plus Chemicals**

Cat. No.: FAZ012 CAS No.: 1251037-67-8

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

Telephone: E-mail address: sales@cfplus.cz

1.4 Emergency telephone number

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. (Cat. 2), H315 Flammable liquids and vapours (Cat.2), H225 Toxic if swallowed (Cat. 3), H301 Acute tox. (Cat. 4), H332 Serious eye irritation (Cat. 2), H319 Carc. (Cat. 2), H351 Reproductive toxicity (1B) H360FD

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

Pictogi	am
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Pictogram	
Signal word	Danger

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Signal word	Danger	
Hazard statements		
H315	Causes skin irritation.	
H225	Highly flammable liquid and vapour.	
H301	Toxic if swallowed.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H351	Suspected of causing cancer.	
H360FD	May damage fertility. May damage the	
	unborn child	
Precautionary statements		
P201	Obtain special instructions before use.	
P261	Avoid breathing	
	dust/fume/gas/mist/vapours/spray.	
P210	Keep away from heat, hot surfaces, sparks,	
	open flames and ignition sources. No	
	smoking.	
P280	Wear protective gloves/protective	
	clothing/eye protection/face protection.	
P308 + P313	IF exposed or concerned: Get medical	
	advice/attention.	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for	
	several minutes. Remove contact lenses, if	
	present and easy to do. Continue rinsing.	
P302 + P352	IF ON SKIN: Wash with plenty of soap and	

P302 + P352IF ON SKIN: Wash with plenty of soap and water.

Supplementary hazards

EUH019 May form explosive peroxides.

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

Does not apply

3.2 Mixtures

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

Component	Classification	Concentration		
Difluoroethyl azide				
CAS-No.: 1251037-67-8 Mw: 107.06 g/mol	No data available	≤ 6-8 %		
Ethylene glycol dimethyl ether (solvent)				
CAS-No.: 110-71-4 EN No.: 203-794-9	Flam. Liq. 2; H226; H335; Repr. 1B; H360FD	≤ 92-94 %		

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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, hydrogen fluoride, Nitrogen oxides.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No explosion upon heating.

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	Liquia
b)	Colour	Colourless
c)	Odour	No data available
d)	Odour Threshold	No data available
e)	pН	No data available
f)	Melting point/Freezing point	No data available

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f) Melting point/Freezing point

g) Initial boiling point and boiling range
h) Flash point
i) Evaporation rate
j) Flammability (solid, gas)
k) Upper/lower flammability
or explosive limits

No data available
No data available
No data available
No data available

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 u) Oxidizing properties No data available

Other safety information

Surface pension No data available Relative vapour density No data available

SECTION 10: Stability and reactivity

10.1 **Reactivity**

Reactive towards alkynes.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Avoid contact with metal and metal powders.

10.4 Conditions to avoid

Heat, flame, sparks.

10.5 Incompatible materials

Strong oxidizing agents, acids and bases, metals.

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 No data available. Skin corrosion/irritation No data available. Serious eye damage/eye irritation No data available. Respiratory or skin sensitisation No data available. Germ cell mutagenetic No data available. Carcinogenicity No data available Reproductive toxicity No data available. Specific target organ toxicity – single No data available

exposure

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

respiratory tract irritation.

May be harmful if swallowed. Potential health effects- Ingestion

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

Causes serious eye irritation. Potential health effects- Eyes No data available.

Specific target organ toxicity – repeated

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

No data available. 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

assessment

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

IATA:

ADR/RID: -1992 IMDG: -1992 IATA: -1992

14.2 UN proper shipping name

ADR/RID: FLAMMABLE, LIQUID, TOXIC,

N.O.S. (Difluoroethylazide; 0.5 M solution in 1,2-dimethoxyethane)

IMDG: FLAMMABLE, LIQUID, TOXIC,

N.O.S. (Difluoroethylazide; 0.5 M solution in 1,2-dimethoxyethane) FLAMMABLE, LIQUID, TOXIC,

N.O.S. (Difluoroethylazide; 0.5 M solution in 1,2-dimethoxyethane)

14.3 Transport hazard class(es)

ADR/RID: 3 IMDG: 3 IATA: 3

14.4 Packaging group

ADR/RID: II IMDG: II IATA: II

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

b) List of abbreviations

IATA

IMDG

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) International Air Transport Association

International Maritime Dangerous Goods

Code

STOT – SE Specific target organ toxicity – single

exposure

Mw Molecular weight Carc. Carcinogenity

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

H315 Causes skin irritation.

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H319 Causes serious eye irritation.

H332 Harmful if inhaled

H351 Suspected of causing cancer.

H360FD May damage fertility. May damage the

unborn child

P201 Obtain special instructions before use.

P261 Avoid breathing

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

P210 Keep away from heat, hot surfaces, sparks,

open flames and ignition sources. No

smoking.

P280 Wear protective gloves/protective

clothing/eye protection/face protection.

P308 + P313 IF exposed or concerned: Get medical

advice/attention.

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

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

rinsing.

P302 + P352 IF ON SKIN: Wash with plenty of soap

and water.

EUH019 May form explosive peroxides.

FUTHER INFORMATION

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