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PLUS CHEMICALS MATERIAL SAFETY DATASHEET

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:	TETRAFLUOROPROPYL AZIDE 0.5M
	SOLUTION IN 1,2-
	DIMETHOXYETHANE
Brand:	CF Plus Chemicals
Cat. No.:	FAZ007
CAS No.:	846057-93-0

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 (

Telephone: E-mail address:

1.4 **Emergency telephone number** Emergency phone: CF Plus Chemicals, s.r.o. Karásek 1767/1 621 00 Brno – Řečkovice Czech Republic +420 606 117 375 <u>sales@cfplus.cz</u>

+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	
Pictogram	\wedge /	



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
~	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
Tetrafluoropropyl azide		
CAS-No. :846057-93-0 Mw: 157.071 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.

9.1	9.1 Information on basic physical and chemical properties		
	Appearance		
a)	Form	Liquid	
b)	Colour	Colourless	
c)	Odour	No data available	
d)	Odour Threshold	No data available	
e)	рН	No data available	
f)	Melting point/Freezing point	No data available	
g)	Initial boiling point and boiling range	No data available	
h)	Flash point	No data available	
i)	Evaporation rate	No data available	
j)	Flammability (solid, gas)	No data available	
k)	Upper/lower flammability	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	
u)	Oxidizing properties	No data available	
O	ther safety information		
	Surface pension	No data available	
	Relative vapour density	No data available	

SECTION 9: Physical and chemical properties

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.	
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

No data available.
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: -1992	IMDG: -1992	IATA: -1992
14.2 UN proper shipping nam ADR/RID:	FLAMMABL N.O.S. (Tetraf	E, LIQUID, TOXIC, fluoropropyl azide; 0.5 M
IMDG:	FLAMMABL N.O.S. (Tetrat	2-dimethoxyethane) E, LIQUID, TOXIC, fluoropropyl azide; 0.5 M 2-dimethoxyethane)
IATA:	FLAMMABL N.O.S. (Tetrat	E, LIQUID, TOXIC, fluoropropyl azide; 0.5 M 2-dimethoxyethane)
14.3 Transport hazard class(e ADR/RID: 3	s) IMDG: 3	IATA: 3
14.4 Packaging group ADR/RID: II	IMDG: II	IATA: II
14.5 Environmental hazards ADR/RID: no IM	IDG: Marine pollutant: no	IATA: no
14.6 Special precautions for u No data available.	ser	

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	
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
Mw	Molecular weight
Carc.	Carcinogenity
a) Full toyt of H and D Statements referred	č
c) Full text of H and P Statements referred	
H315	Causes skin irritation.
H225	Highly flammable liquid and vapour. Toxic if swallowed.
H301 H319	
H319 H332	Causes serious eye irritation. Harmful if inhaled
H352 H351	
	Suspected of causing cancer.
H360FD	May damage fertility. May damage the unborn child
P201	
P261	Obtain special instructions before use.
F201	Avoid breathing
D21 0	dust/fume/gas/mist/vapours/spray.
P210	Keep away from heat, hot surfaces, sparks,
	open flames and ignition sources. No
P280	smoking.
F200	Wear protective gloves/protective
P308 + P313	clothing/eye protection/face protection. IF exposed or concerned: Get medical
F308 + F315	advice/attention.
P305 + P351 + P338	
P303 + P331 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue
D202 + D252	rinsing.
P302 + P352	IF ON SKIN: Wash with plenty of soap
	and water.
EUH019	May form explosive peroxides.

FUTHER INFORMATION

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