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MATERIAL SAFETY DATASHEET

According to regulation (EC) No. 1907/2006

Revision Date: 1.11.2019

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

1.1 Product identifiers

Product name:	6-AZIDOHEXANOIC ACID NHS ESTER
Brand:	CF Plus Chemicals
CAS-No.:	866363-70-4
Cat. No.:	PCL021

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
Telephone:	+420 606 117 375
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 irritation (Category 2), H315

Eye irritation (Category 2), H319

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

2.2 Label elements

Pictogram

Signal word: Warning

Hazard statement(s)

H315: Causes skin irritation.

H319	Causes serious eye irritation.

Precautionary statement(s)

P264	Wash skin thouroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: wash with plenty of soap and water.
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

None

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms:	6-azidohexanoic acid N-hydroxysuccinimide ester 6-azidohexanoic acid 2,5-dioxo-pyrrolidin-1-yl ester 6-azidohexanoic acid N-hydroxysuccinimide ester 1-[(6-azidohexanoyl)oxy]pyrrolidine-2,5-dione 6-azidohexanoic N-hydroxysuccinimide ester 2,5-dioxopyrrolidin-1-yl-6-azidohexanoate
Formula:	$C_{10}H_{14}N_4O_4$
Molecular weight:	254.25 g/mol
CAS-No.:	866363-70-4

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

Component	Classification	Concentration
6-Azidohexanoic acid 2,5-dioxo-pyrrolidin-1-yl ester		
CAS-No.: 866363-70-4	-	<= 100 %

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

No data available.

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, nitrogen oxides.

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 equipments 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.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep and shovel. Keep in suitable, closed containers for disposal.

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.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature -20 °C. Store under inert gas. Moisture sensitive. Sunlight sensitive.

7.3 Specific end uses

No data available.

SECTION 8: Exposure controls/personal protections

8.1 Control parameters

Contains no substances with occupational limit values.

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.

Body protection

Impervious clothing, flame retardant antistatic protective clothing. 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) respiratory cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	Form: oil liquid Colour: white to slightly yellowish
b) Odour	No data available
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/Freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available

i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	Insoluble
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

Surface pension	No data available
Relative vapour density	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Moisture sensitive. Reactive towards amines or alcohols.

10.2 Chemical stability

No data available.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Strong oxidizing agents. Water. Alcohols. Amines.

10.5 Incompatible materials

Strong oxidizing agents. Water. Alcohols. Amines.

10.6 Hazardous decomposition products

Carbon oxides, nitrogen oxides. Other decomposition products – No data available.

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 mutagenity

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
No data available.
Specific target organ toxicity – single exposure
Inhalation – may cause respiratory irritation.
Specific target organ toxicity – repeated exposure
No data available.
Aspiration hazard
No data available.
Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes serious eye irritation.

Additional Information
RTECS: No data available.

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 assessment
No data available.
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. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
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

This MSDS complies with the requirements of the Regulation (EC) No. 1907/2006.

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

No data available.

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information

16.1 Full text of H-Statements referred to under sections 2 and 3.

H315	Causes skin irritation.
H319	Causes serious eye irritation.

FUTHER INFORMATION

 It is believed that the above mentioned information is correct and represents the best information for us. It does however not mean that the above mentioned information is complete and therefore it should be used as a general guide. CF Plus Chemicals s.r.o. will not be held liable for any damage resulting from the use, handling or contact with the product according to the General terms and sale conditions of the company CF Plus Chemicals s.r.o. (http://www.cfplus.cz/terms). This product is intended solely for research and development purposes.