

According to regulation (EC) No. 453/2010

Revision Date: 23.09.2020 Creation date: 23.09.2019

Version:1.0.1

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

1.1 **Product identifiers**

Product name: BIS(2,5-DIOXOPYRROLIDIN-1-YL)2,2'-

(CARBONYLBIS(AZANEDIYL)DIACETATE

Brand: **CF Plus Chemicals**

Cat. No.: PCL006 CAS No.: 211029-82-2

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 irrit. (Category 2), H315
Serious eye irritation (Category 2), H319
Acute toxicity, inhalation (Category 4), H332
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 Warning

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

Precautionary statements

P261 Avoid breathing

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

P232 Protect from moisture.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

P302 + P352

IF ON SKIN: Wash with plenty of 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

No.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms:	Urea-crosslinker C2-succinimide
Formula:	$C_{13}H_{14}N_4O_9$
Molecular weight:	370.27 g/mol
CAS-No.:	211029-82-2

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, 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 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

Pick up and arrange disposal without creating dust. Sweep up 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. For precautions see section 2.2.

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. Handle and store under inert gas. Heat and moisture sensitive.

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

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. 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).

No data available

Control of environmental exposure

q) Auto-ignition temperature

t) Explosive properties

u) Oxidizing properties

s) Viscosity

r) Decomposition temperature

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 Powder a) Form b) Colour White c) Odour No data available d) Odour Threshold No data available No data available e) pH 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 **Partially** p) Partition coefficient: n-octanol/water 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 amines, water, strong acids and bases and oxidizing agents.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Avoid contact with water, strong oxidizing agents, strong acids and bases.

10.5 Incompatible materials

Avoid contact with water. Possibility of decomposition. Avoid contact with strong oxidizing agents and strong acids and bases.

10.6 Hazardous decomposition products

Nitrogen oxides, Carbon oxides. 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

Respiratory or skin sensitisation

Germ cell mutagenetic

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 No data available.

Specific target organ toxicity – single Inhalation – may cause respiratory

exposure 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. 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

12.5 Results of PBT and vPvB

12.6 Other adverse effects

assessment

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. 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

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

International Agency for Research on **IARC**

Cancer

RTECS Registry of Toxic Effects of Chemical

Substances

PBT/vPvB (persistant, bioacumulative and toxis)

(very persistant and very bioacumulative)

European Agreements Concerning the ADR/RID

> International Carriage of Dangerous Goods by Rail (RID) and Road (ADR)

International Air Transport Association **IATA IMDG**

International Maritime Dangerous Goods

STOT - SESpecific target organ toxicity – single

exposure

e) Full text of H and P Statements referred to under sections 2 and 3.	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
P261	Avoid breathing
	dust/fume/gas/mist/vapours/spray.
P232	Protect from moisture.
P280	Wear protective gloves/ protective
	clothing/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of 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.

FUTHER INFORMATION

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