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# PLUS CHEMICALS MATERIAL SAFETY DATASHEET

BIS(2,5-DIOXOPYRROLIDIN-1-YL)4,4'-

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:

(CARBONYLBIS(AZANEDIYL)DIBUTYRATEBrand:CF Plus ChemicalsCat. No.:PCL008CAS No.:1240387-33-0

## 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 Chemicals, s.r.o.
	Karásek 1767/1
	621 00 Brno – Řečkovice
	Czech Republic
Telephone:	+420 606 117 375
E-mail address:	sales@cfplus.cz
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#### 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. 127	2/2008
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

Warning
Causes skin irritation.
Causes serious eye irritation.
Harmful if inhaled.
May cause respiratory irritation.
Avoid breathing
dust/fume/gas/mist/vapours/spray.
Protect from moisture.
Wear protective gloves/ protective clothing/
eye protection/ face protection.
IF ON SKIN: Wash with plenty of water.
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**

Synonyms:	Urea-crosslinker C4-succinimide
Formula:	$C_{17}H_{22}N_4O_9$
Molecular weight:	426.38 g/mol
CAS-No.:	1240387-33-0

# **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

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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).

# 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

	Appearance	
a)	Form	Powder
b)	Colour	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
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
0)	Water solubility	Poor
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	No data available
u)	Oxidizing properties	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	No data available.
Respiratory or skin sensitisation	No data available.
Germ cell mutagenetic	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**

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12.1 <b>Toxicity</b>	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.
·	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. 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 <b>UN Number</b> ADR/RID: -	IMDG: -	IATA: -
14.2 <b>UN proper shipping</b> ADR/RID: IMDG: IATA:	name Not dangerous Not dangerous Not dangerous	goods
14.3 <b>Transport hazard cla</b> ADR/RID: -	ass(es) IMDG: -	IATA: -
14.4 <b>Packaging group</b> ADR/RID: -	IMDG: -	IATA: -
14.5 Environmental hazar ADR/RID: no	rds IMDG: Marine pollutant: no	IATA: no
14.6 <b>Special precautions f</b> No data available.	or user	

# **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
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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

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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