



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

1.1. Product identifier

Name of product C2-Urea-NHS-crosslinker
Art. No. 1881357
Name of substance Urea-crosslinker C2-succinimide
CAS No 211029-82-2

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended intended purpose(s)

Laboratory chemical

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor Bruker Daltonics GmbH & Co. KG
Fahrenheitstr. 4, D-28359 Bremen, Germany
Phone +49(421)2205-0, Fax +49(421)2205-100
E-Mail care@bruker.com
Internet www.bruker.com

Advice Bruker Daltonics GmbH & Co. KG
Phone +49(421)2205-0

1.4. Emergency telephone number

Emergency advice Emergency CONTACT (24-Hour-Number): GBK GmbH
Phone +49(0)6132-84463

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
Acute Tox. 4	H332	
Skin Irrit. 2	H315	
Eye Irrit. 2	H319	
STOT SE 3	H335	

Hazard statements for health hazards

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

Additional hints

This mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [GHS].

2.2. Label elements



Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS07

Signal word
Warning

Hazard statements for health hazards

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

Precautionary Statements

Prevention

P232 Protect from moisture.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

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.
P314 Get medical advice/attention if you feel unwell.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.

Disposal

P501 Dispose of contents/container to a licensed disposal company.

2.3. Other hazards

No information available.

SECTION 3: Composition/ information on ingredients

3.1. Substances

CAS No 211029-82-2

Urea-crosslinker C2-succinimide

3.2. Mixtures

not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately.
In case of accident or if you feel unwell seek medical advice immediately (if possible, show the operating instructions or safety data sheet).

In case of inhalation

Ensure of fresh air.
If breathing is difficult, give oxygen.
In case of respiratory standstill give artificial respiration by respirator and send for a doctor.



In case of skin contact

In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation occurs or persists.

In case of eye contact

In case of contact with eyes rinse thoroughly with water.
Remove contact lenses
Seek medical advice immediately.

In case of ingestion

Do not induce vomiting.
Call for a doctor immediately.
Rinse out mouth thoroughly with water.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam
Dry fire-extinguishing substance
Carbon dioxide
sand
Water spray jet

5.2. Special hazards arising from the substance or mixture

Fire gas of organic material has to be classed invariably as respiratory poison.
In the event of fire the following can be released:
Nitrogen oxides (NO_x)
Carbon monoxide (CO)
Carbon dioxide (CO₂)

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply (isolated).

Additional information

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ensure adequate ventilation.
Avoid dust formation.
Use personal protective clothing.
Avoid skin and eye contact.
Do not breathe dust.



6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Avoid dust formation.

Flush away residues with water.

Take up mechanically and send for disposal.

6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

Emergency telephone number: see section 1

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid the formation of dust.

Do not inhale dust.

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Take the usual precautions when handling with chemicals.

The product should be handled with the care usual when dealing with chemicals.

General protective measures

Avoid contact with eyes and skin

Do not inhale dust.

Hygiene measures

Clean skin thoroughly after working.

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

Keep away from food and drink.

Use barrier skin cream.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in closed original container.

Further information on storage conditions

Protect from atmospheric moisture and water

Keep container dry and store at cool and aired place.

Keep under dry inert gas.

Recommended storage temperature: - 20 °C.

Storage group 13

7.3. Specific end use(s)

No information available.



SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No information available.

8.2. Exposure controls

Respiratory protection

Respirators and components must be tested and approved to appropriate government standards such as NIOSH (US) or CEN (EU).

For slight 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.

Hand protection

The selection of the suitable gloves does not only depend on different material, but also on further marks of quality and varies from manufacturer to manufacturer.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

The selected protective gloves have to meet the specifications of EU Directive 89/686 / EEC and the resultant standard EN374.

Eye protection

safety goggles with side protection

For eye protection, use only equipment that has been tested and approved to regulatory standards such as NIOSH (US) or EN 166 (EU).

Other protection measures

Light protective clothing, antistatic

Appropriate engineering controls

Ensure good interior ventilation, if necessary exhaustion at the workplace.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

powder

Colour

white

Odour

No information available.

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not determined				
Boiling temperature / boiling range	not determined				
Melting point / Freezing point	not determined				
Flash point	not determined				
Vapourisation rate	not determined				

Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

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C2-Urea-NHS-crosslinker



	Value	Temperature	at	Method	Remark
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	not determined				
Self ignition temperature	not determined				
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined				
Relative density	not determined				
Vapour density	not determined				
Solubility in water					partially soluble
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity	not determined				
Oxidising properties	No information available.				
Explosive properties	No information available.				
9.2. Other information	No information available.				

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Protect from humidity and water.



10.5. Incompatible materials

Substances to avoid

Oxidising agent, strong

10.6. Hazardous decomposition products

Concerning possible decomposition products see section 5.

Thermal decomposition

Remark No decomposition if used as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
Skin irritation	irritant			
Eye irritation	irritant			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Carcinogenicity				No ingredient of this product, present in a concentration equal to or greater than 0.1%, has been identified by the IARC as a likely, possible or proven human carcinogen.

Specific target organ toxicity (single exposure)

May cause respiratory irritation.

Aspiration hazard

No danger of aspiration according to CLP Regulation.

Experiences made from practice

May be harmful by inhalation. May cause respiratory tract irritation. May be harmful if swallowed. May be harmful if absorbed through the skin. Can the eyes or Skin irritation.

Additional information

The product should be handled with the care usual when dealing with chemicals. Further hazardous properties can not be excluded.

SECTION 12: Ecological information

12.1. Toxicity

No information available.

12.2. Persistence and degradability



No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

General regulation

Ecological dates are not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendations for the product

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There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany the Recycling and Waste Management Act (KrWG) stipulates recycling as a requirement.

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This means that a distinction must be made between "wastes for recycling" and "wastes for disposal". Particular aspects - in the main concerning delivery - are also governed by the Laender.

Recommendations for packaging

Disposal in accordance with local regulations.

Recommended cleansing agent

water

General information

The waste code must be allocated in compliance with the EAK-regulation referring to the specific process and the sector.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	-	-	-
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-
14.5. Environmental hazards	-	-	-



14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

Transport/further information

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

SECTION 15: Regulatory information

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

National regulations

Water hazard class -

15.2. Chemical Safety Assessment

No information available.

SECTION 16: Other information

Training advice

See technical datasheet for more information.

CAS - Chemical Abstracts Service; CLP - classification, labeling and packaging; DNEL - derived exposure level without adverse effects; GHS - Globally Harmonized System for Classification and Labeling of Chemicals; LC50 - Median Lethal Concentration;

OECD - Organization for Economic Co-operation and Development; PBT - Persistent, Bioaccumulative and Toxic; PNEC - Estimated No Effect Concentration; STOT - Specific Target Organ Toxicity; SVHC - substance of very high concern;

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

Further information

Each user is responsible for the implementation of the national special regulations.

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Please observe the following disclaimer! Our safety data sheets have been compiled according to effective EU directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

Sources of key data used

Data sheets of the sub-supplier.

Full text of the hazard phrases in section 3.

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