Belyntic

Safety data sheet according to Regulation (EG) No. 1907/2006 (REACH)

Safety Data Sheet

Version 1.0

Valid From: 13.03.2019 Date of Issue: 12.03.2019

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE **COMPANY/UNDERTAKING**

1.1 **Product identifier**

Product Name/Trade : PEC-Linker RC+

Name

CAS-Nr. n.v.

EG-Nr. n.v.

IUPAC 2-((2-(2-bis-(tert-butoxycarbonyl)-(aminooxy)acetamido)

ethyl)carbamoyl)-4-azido-3-bromobenzyl (4-nitrophenyl)

carbonate

: Registration is not required Reach Nr.

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

Identified uses : Reagent for scientific in vitro research only

Uses advised against : Other uses than stated

Contact of the manufacturer 1.3

> : Belyntic GmbH Company

Richard-Willstätter Str. 11

D-12489 Berlin

Telefon : +49 30-8104-1113 Email : info@belyntic.com

1.4 Emergency telephone

number

: +49(0)30 30 686700 (Charité Berlin)

Section 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Acute Toxicity Category 4/Acute Tox. 4; H302-Harmful if swallowed

2.2 Label elements

Pictograms:



Signal Word: Warning

Hazard Statements

H302 Harmful if swallowed

Precautionary statements

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P261 avoid breathing dust/spray

P264 wash hands thoroughly after handling

P280 wear protective gloves/protective clothing/eye protection

2.3 Other hazards

May form explosive dust-air mixture if dispersed No further hazards known

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

The product does not contain to our current knowledge substances which are PBTs or vPvBs or other substances classified as hazardous which are relevant according Section 3.2 of Regulation (EU) No.2015/830

3.2 Mixtures

The product is a substance

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Remove exposed person out of the hazardous area and keep at rest. Seek medical advice if you feel unwell.

Following Inhalation

Care for fresh air and unrestricted breathing.

Following skin contact

Remove contaminated clothing. Wash immediately with plenty of water and soap.

Following eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion

Do not induce vomiting. Rinse mouth and drink plenty of water.

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

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. No further relevant information available.

Section 5: FIREFIGHTING MEASURES

5.1 Extiguishing media

In case of fire use water spray, foam, dry chemical extinguisher or carbon dioxide Unsuitable extinguishing agents: High pressure media

5.2 Special hazards arising from the substance or mixture

Ignitable. In case of fire hazardous burning gases/vapours/fumes/mists may be formed, e.g. carbonoxides, nitrogenoxides or sulfuroxides. Do not inhale gas/vapours/fumes/mists.

5.3 Advice for firefighters

In case if fire use self-contained breathing apparatus. Wear full firefighting protective clothing.

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5.4 Further advice

Avoid direct or indirect release of extinguishing water to surface water, ground water, soil or public sewage system. Knock down gases/vapours/fumes/mists with water spray.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment (skin and eye protection; protective clothing). Avoid contact with skin, eyes and clothing as well as inhalation of dust. Ensure adequate ventilation.

6.2 **Environmental precautions**

Avoid direct discharge to sewers and surface waters.

6.3 Methods and material for containment and cleaning up

Sweep up and place in a waste disposal container. Dispose material in accordance with applicable local and national regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection. See Section 13 for information on disposal.

Section 7: HANDLING AND STORAGE

7.1 **Precautionary measures**

Avoid breathing dust. Avoid contact with skin and clothing. Do not get in eyes. Keep container closed. Wear skin and eye protective eqipment.

Special handling advice on general occupational hygiene

Provide good ventilation in working area (hood when working in laboratories; local exhaust ventilation if necessary).

Advice on general occupational hygiene

Do not eat, drink and smoke in work area. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Storage temperature: 2-8 °C. Protect from sunlight and heat.

All local and national regulations should be followed.

Information about storage in one common storage facility

Store in a dry place. Keep container tightly closed. Store away from foodstuffs.

Advice for protection against fire and explosions

Dusts may form explosible mixtures with air.

Incompatibilities

Oxidising chemicals.

7.3 Specific end use(s)

No further relevant information available.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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8.1 Control parameters

For this substance there are no specific control parameters (OELs/WELs; BELs, DNELs nor PNECs) established or available.

A general 8 h limit value for 'Dust, inhalable' is established in Austria, Belgium, Denmark, France, Germany, Hungary, Ireland, Singapore, Spain, Sweden, Switzerland of 10 mg/m³. Short-term Limit values in Austria, France, Germany: 20 mg/m³.

8.2 Exposure Controls

Appropriate engineering controls

Work in a hood. Local exhaust ventilation should be provided to control exposure when handling and processing.

Individual protection measures, such as personal protective equipment

Eye / face protection

Wear protective goggles.



Skin protection

Protective gloves: The glove material has to be impermeable and resistant to the product/ mixture and must satisfy CEN standards (Council directive 89/868/EEC; EN 374).

Suitable materials: Nitril rubber; Butyl rubber(z.B. von KCL-GmbH), thickness: 0,11 mm. Break through time: > 480 min. Not suitable are gloves (not exhaustive): leather gloves.



Other protection

Wear appropriate protective work clothing. Avoid contamination of skin when taking off the work clothing.

Respiratory protection

When handling according to the intended use no special measures in addition to the recommended engineering controls (see 8.2.1) are necessary. For operations where dust inhalation exposure can occur use an appropriate and approved air purifying respirator.

Thermal hazards

n.a.

Environmental exposure controls

Avoid discharge to sewers and surface waters.

Section 9: Physical und chemical properties

a) Appearance

Aggregate state solid; powder, particle size < 0,5 mm and

> 1 µm

Color White-yellowish
b) Odour Hardly perceptable

c) Odour threshold n.av.

d) pH-Value (20°C) n.ap. (very poor water solubility)

e) Melting / freezing point ≥ 103°C (DSC-test)

f) Initial boiling point and boiling range n.ap.g) Flash point n.ap.

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h) Evaporation rate n.ap. i) Flammability (solid, gas) n.ap. i) Upper/lower flamability or explosive n.ap. limits k) Vapour pressure n.ap. 1) Vapour density n.av. m) Relative Density n.av.

n) Solubilit(ies) not soluble in water and ethanol; soluble

in most polar solvents

o) Partition coefficient n.av.

n-Octanol/Wasser

p) Auto-ignition temparature n.ap.

g) Decomposition temperature ≥160°C (extrapolated onset temperature;

DSC- Test)

r) Vicsosity n.ap. (powder)s) Explosive properties not explosive

t) Oxidising properties n.ap. (application of tests concerning

oxidising properties is not possible since

the product is melting and the decomposition temperature is low).

Other information

The substance is not manufactured with respect to production of practical explosive or pyrotechnical effects.

Dusts may form explosible mixtures with air.

Section 10: Stability and Reactivity

10.1 Reactivity

Does not react in a hazardous manner when used for the intended use

10.2 Chemical stability

Chemically stable. No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

n.ap.

10.4 Consitions to avoid

Protect from flames, ignition sources, heat and sunlight.

10.5 Incompatible materials

n.ap.

10.6 Hazardous decomposition products

n.av.

Section11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

The substance has not been tested with respect to toxicological effects.

Acute Toxicity

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LD 50 (rat oral): Estimation of the acute oral toxicity via Pro Tox II-Prediction of TOXicity of chemicals: 500 mg kg/BW

LD 50 (rat dermal): n.av.

LC 50 (rat, inhalation): n.av.

Based on available information the classification criteria are met for Acute Tox. 4: H302

Skin corrosion/irritation: No test data available. With respect to the structure of the substance Skin corrosion is not to be expected. Classification is not possible due to data lacking.

Serious eye damage/eye irration: n.av.

Classification is not possible due to data lacking.

Respiratory or skin sensitisation

Respiratory sensitisation: n.av. Skin sensitisation: n.av. Classification is not possible due to data lacking.

Germ cell mutagenicity: n.av.

Classification is not possible due to data lacking.

Carcinogenicity: n.av.

Classification is not possible due to data lacking.

Reproductive toxicity: n.av.

Classification is not possible due to data lacking.

STOT-single exposure: n.av.

Classification is not possible due to data lacking.

STOT-repeated exposure: n.v.

Classification is not possible due to data lacking.

Aspiration hazard: n.ap. (a solid)

Based on the available information the classification criteria are not met.

Information on likely routes of exposure: Inhalation (dust)

Symptoms related to the physical, chemical and toxicological characteristics: n.av.

Delayed and immediate effects as well as chronic effects from short and long-term exposure: n.av.

Other information: No further relevant information available

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

The substance has not been tested with respect to ecological information.

Acute aquatic toxicity: n.av.

Chronic aquatic toxicity: n.av.

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12.2 Persistence and degradability

n.av.

12.3 Bioaccumulative potential

n.v

12.4 Mobility in soil

n.av.

12.5 Results of PBT and vPvB assessment

Not performed since a chemical safety report is not required

12.6 Other adverse effects

n.av.

Classification with respect to Hazardous to the Aquatic Environment is not possible due to data lacking.

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

It is encouraged to recycle and reuse the product and packaging, where possible.

Product disposal

When recycle or reuse is not possible, it is recommended that the product be disposed of by thermal treatment or incineration at approved facilities.

All local and national regulations should be followed.

Waste code: 07 07 99 - Wastes from the MSFU from fine chemicals and chemical products not otherwise specified according to Directive 2008/98/EC

Packaging disposal

Handle contaminated packages in the same way as the product itself. Disposal of emptied and cleaned packaging must be made in accordance with applicable local and national regulations.

Disposal-relevant information

Do not release directly or indirectly to surface water, ground water, soil or public sewage system.

Section 14: TRANSPORT INFORMATION

The product is not a dangerous good according to transport regulations

14.1 **UN-Number:** n.ap.

ADR/RID: n.ap. IMDG: n.ap. IATA: n.ap.

14.2 UN proper shipping name

ADR/RID: n.ap. IMDG: n.a. IATA: n.a.

14.3 Dangerous good classification

ADR/RID: n.ap. IMDG: n.ap. IATA: n.ap.

14.4 Packaging group

ADR/RID: n.ap. IMDG: n.ap. IATA: n.ap.

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14.5 Environmental hazards

ADR/RID: n.ap. IMDG: n.ap. IATA: n.ap.

Marine Pollutant: no

14.6 Special precautions for user

n.ap

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

n.ap.

Section 15: REGULATORY INFORMATION

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

EU: REACH: Regulation (EU) No 1907/2006; CLP Regulation (EU) No.1272/2008; Regulation (EU) No.2015/830; Waste Framewok Directive 2008/98/EC

National (Germany):

Water Hazard Class. WGK 3 according to AwSV (self classification)

15.2 Chemical safety assessment

not performed since not required

Section 16: OTHER INFORMATION

a) Indication of changes in the SDS: n.ap.

b) Abbreviations and Acronyms

ADR Accord européen sur le transport des marchandises

dangereuses par Route (European Agreement concerning the

International Carriage of Dangerous Goods by Road)

AwSV Legislation concerning classification of substances into Water

Hazard Classes (Germany)

BAM Bundesanstalt für Materialforschung und Prüfung (Berlin)

CAS Chemical Abstracts Service

CLP Regulation (EU) No 1272/2008 on Classification, Labelling and

Packaging of Substances and Mixtures

EINECS European Inventory of Existing Commercial Chemical

Substances

ELINCS European List of Notified Chemical Substances

EN European norm

Flam. Liq. Flammable Liquid (code according to CLP)

IATA International Air Transport Association

ICAO International Civil Aviation Organization

IMDGInternational Maritime Code for Dangerous GoodsMet.Corr.Corrosive to metals(code according to CLP)IOELVIndicative Occupational Exposure Limit ValueMFSUWastes from the manufacture, formulation, supply

and use

n.ap. not applicable n.av. not available

OEL Occupational (workplace) Exposure Limit
PBT Persistent, Bioaccumulative, Toxic
PNEC Predicted No Effect Concentration
REACH Regulation (EU) No 1907/2006

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RID

Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by

Rail)

SCL Specific Concentration Limit

Skin Corr. Skin Corrosion (code according to CLP)

TRGS Technical Rules for Hazardous Substances (Germany)

VOC Volatile Organic Compounds

vPvB very Persistent very Bioaccumulative

VwVwS Verwaltungsvorschrift wassergefährdender Stoffe

WEL Workplace Exposure Limit

c) Key literature references and sources for data: DSC-Test (2.23/200918/092)

d) Methods of evaluation for the purpose of classification in case of mixtures: n.ap.

e) List of relevant hazard statements (number and full text)

H302 - Harmful if swallowed

f) Advice on training

The product should only be handled by trained persons. Training as required by national and company rules.