novoDYN3®



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

1.1 Product identifier

novoDYN3®

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

1.2.1 Relevant uses

EU-Fertilizer

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Kanadevia Inova Schmack GmbH

Bayernwerk 8

92421 Schwandorf / GERMANY Phone +49 9431 751-277 Fax +49 (0)9431-751-204

Homepage www.kanadevia-inova.com/schmack-biogas

E-mail info@kanadevia-inova.com

Address enquiries to

Technical information info@kanadevia-inova.com

Safety Data Sheet sdb@chemiebuero.de (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

1.4 Emergency telephone number

Company +49 9431 751-277

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

No classification.

2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictogramsnoneSignal wordnoneHazard statementsnonePrecautionary statementsnone

Special labelling EUH210 Safety data sheet available on request.

Contains: Nickelate(2-), [[N,N'-1,2-ethanediylbis[N-[(carboxy-.kappa.O)methyl]glycinato-

.kappa.N,.kappa.O]](4-)]-, disodium, (OC-6-21)-(9CI), Cobalt disodium ethylenediaminetetraacetate. EUH208 May produce an allergic reaction.

2.3 Other hazards

Human health dangers The substance/mixture does not contain components considered to have endocrine disrupting

properties according to REACH Article 57(f) or Commission Delegated regulation (EU)

2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Environmental hazards

This substance/mixture contains no components considered to be either persistent,

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels

of 0.1% or higher.

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable



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3.2 Mixtures

The product is a mixture.

Range [%]	Substance	
< 1	Nickelate(2-), [[N,N'-1,2-ethanediylbis[N-[(carboxykappa.O)methyl]glycinatokappa.N,.kappa.O]](4-)]-, disodium, (OC-6-21)-(9Cl)	
	CAS: 15708-55-1, Reg-No.: 01-2120777878-27-XXXX	
	GHS/CLP: Acute Tox. 4: H302 - Skin Sens. 1: H317 - Eye Irrit. 2: H319 - Aquatic Chronic 3: H412	
< 1	Cobalt disodium ethylenediaminetetraacetate	
	CAS: 15137-09-4, EINECS/ELINCS: 239-198-0, Reg-No.: 01-2120778183-49-XXXX	
	GHS/CLP: Skin Sens. 1: H317 - Acute Tox. 4: H302	

Comment on component parts For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Take off contaminated clothing and wash before reuse.

Inhalation Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

Skin contact When in contact with the skin, clean with soap and water.

Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Ingestion Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Forward this sheet to your doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Product itself is non-combustible. Fire extinguishing method of surrounding areas must be

considered.

Extinguishing media that must not

be used

Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

Use breathing apparatus if exposed to dust.

6.2 Environmental precautions

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



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6.3 Methods and material for containment and cleaning up

Take up mechanically. Avoid raising dust.

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

The normal safety precautions for handling chemicals must be observed.

Avoid the formation and deposition of dust.

Provide vacuuming if dust raised.

Wash hands before breaks and after work.

Use barrier skin cream.

Do not eat, drink, smoke or take drugs at work.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store together with food and animal food/diet.

Keep in a well-ventilated place.

Keep in a cool place. Store in a dry place.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

DNEL

Substance

 $\label{linear_continuous_norm} Nickelate (2-), [[N,N'-1,2-ethane diylbis[N-[(carboxy-.kappa.O)methyl]glycinato-.kappa.N,.kappa.O]] (4-)]-, disodium, (OC-6-21)-(9CI), CAS: 15708-55-1$

There are no DNEL values established for the substance.

Cobalt disodium ethylenediaminetetraacetate, CAS: 15137-09-4

Industrial, inhalative, Long-term - systemic effects, 0,349 mg/m³

Industrial, dermal, Long-term - systemic effects, 1 mg/kg bw/day

general population, inhalative, Long-term - systemic effects, 0,087 mg/m³

general population, dermal, Long-term - systemic effects, 0,5 mg/kg bw/day

general population, oral, Long-term - systemic effects, 0,25 mg/kg bw/day

PNEC

Substance

Nickelate(2-), [[N,N'-1,2-ethanediylbis[N-[(carboxy-.kappa.O)methyl]glycinato-.kappa.N,.kappa.O]](4-)]-, disodium, (OC-6-21)-(9CI), CAS: 15708-55-1

There are no PNEC values established for the substance

Cobalt disodium ethylenediaminetetraacetate, CAS: 15137-09-4

freshwater, 0,1 mg/L

seawater, 0,01 mg/L

sediment (freshwater), 758 µg/kg sediment dw

sediment (seawater), 75,8 µg/kg sediment dw

soil, 563,6 µg/kg soil dw



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8.2 **Exposure controls**

Additional advice on system design Ensure adequate ventilation on workstation.

Pay attention to dust limit value (ACGIH-2011: 10 mg/m³ particle inhalable; 1,25 mg/m³

particle respirable).

Eye protection Safety glasses. (EN 166:2001)

0,4 mm; butyl rubber, > 120 min (EN 374) Hand protection

The details concerned are recommendations. Please contact the glove supplier for further

information.

Skin protection Protective clothing (EN 340) Other Avoid contact with eyes and skin.

Do not inhale dust.

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

Avoid contact during pregnancy/ while nursing.

Respiratory protection In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear

appropriate respiratory protection.

Short term: filter apparatus, filter P2. (DIN EN 143)

Thermal hazards

Delimitation and monitoring of the

Protect the environment by applying appropriate control measures to prevent or limit environmental exposition

emissions

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state Form powder Color red-brown odourless Odor **Odour threshold** not applicable pH-value not applicable pH-value [1%] not determined Boiling point or initial boiling point

and boiling range [°C]

not applicable

Flash point [°C] not applicable **Flammability** not applicable Lower explosion limit not applicable Upper explosion limit not applicable

Oxidising properties Vapour pressure/gas pressure [kPa] not applicable

Density [g/cm³] not determined Relative density not determined Bulk density [kg/m³] not determined Solubility in water virtually insoluble

Solubility other solvents No information available.

Partition coefficient n-octanol/water

(log value)

not applicable

Kinematic viscosity not applicable Relative vapour density not applicable Melting point [°C] not determined Auto-ignition temperature [°C] not applicable Decomposition temperature [°C] not applicable Particle characteristics not determined

Other information

none



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SECTION 10: Stability and reactivity

10.1 Reactivity

Reaction with acids: production of heat and carbon dioxide.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

not relevant

10.6 Hazardous decomposition products

No hazardous decomposition products known.



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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

Product

ATE-mix, oral, > 2000 mg/kg

Substance

Nickelate(2-), [[N,N'-1,2-ethanediylbis[N-[(carboxy-.kappa.O)methyl]glycinato-.kappa.N,.kappa.O]](4-)]-, disodium, (OC-6-21)-(9Cl), CAS: 15708-55-1

LD50, oral, Rat, > 500 mg/kg

Cobalt disodium ethylenediaminetetraacetate, CAS: 15137-09-4

LD50, oral, Rat, 729 mg/kg

Acute dermal toxicity

Product

dermal, Based on the available information, the classification criteria are not fulfilled.

Acute inhalational toxicity

Product

inhalative, Based on the available information, the classification criteria are not fulfilled.

Serious eye damage/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance

Nickelate(2-), [[N,N'-1,2-ethanediylbis[N-[(carboxy-.kappa.O)methyl]glycinato-.kappa.N,.kappa.O]](4-)]-, disodium, (OC-6-21)-(9CI), CAS: 15708-55-1

irritant

Cobalt disodium ethylenediaminetetraacetate, CAS: 15137-09-4

non-irritating

Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance

Nickelate(2-), [[N,N'-1,2-ethanediylbis[N-[(carboxy-.kappa.O)methyl]glycinato-.kappa.N,.kappa.O]](4-)]-, disodium, (OC-6-21)-(9CI), CAS: 15708-55-1

non-irritating

Cobalt disodium ethylenediaminetetraacetate, CAS: 15137-09-4

non-irritating

Respiratory or skin sensitisation

Based on the available information, the classification criteria are not fulfilled.

Substance

 $\label{linear_Nickelate} Nickelate(2-), [[N,N'-1,2-ethanediylbis[N-[(carboxy-.kappa.O)methyl]glycinato-.kappa.N,.kappa.O]] (4-)]-, disodium, (OC-6-21)-(9CI), CAS: 15708-55-1$

dermal, sensitising

Cobalt disodium ethylenediaminetetraacetate, CAS: 15137-09-4

dermal, sensitising

Specific target organ toxicity — single exposure

Based on the available information, the classification criteria are not fulfilled.

Specific target organ toxicity — repeated exposure

Based on the available information, the classification criteria are not fulfilled.

Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

Substance

Nickelate(2-), [[N,N'-1,2-ethanediylbis[N-[(carboxy-.kappa.O)methyl]glycinato-.kappa.N,.kappa.O]](4-)]-, disodium, (OC-6-21)-(9CI), CAS: 15708-55-1

in vitro, negativ

Cobalt disodium ethylenediaminetetraacetate, CAS: 15137-09-4



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in vitro, negativ

Reproduction toxicity Based on the available information, the classification criteria are not fulfilled. Carcinogenicity Based on the available information, the classification criteria are not fulfilled. Aspiration hazard Based on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting

properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU)

2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

11.2.2 Other information

SECTION 12: Ecological information

12.1 Toxicity

Substance

Nickelate (2-), [[N,N'-1,2-ethanediylbis[N-[(carboxy-.kappa.O)methyl]glycinato-.kappa.N,.kappa.O]](4-)]-, disodium,

(OC-6-21)-(9CI), CAS: 15708-55-1

EC50, (24h), Daphnia magna, 610 mg/L

12.2 Persistence and degradability

Behaviour in environment

compartments

not determined

Behaviour in sewage plant not determined Biological degradability not applicable

12.3 Bioaccumulative potential

not applicable

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Do not discharge product unmonitored into the environment.



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

For recycling, consult manufacturer.

Waste no. (recommended)

020108*

Contaminated packaging

Uncontaminated packaging may be taken for recycling

Waste no. (recommended) 150102

150104

SECTION 14: Transport information

14.1 UN number or ID number

Inland navigation (ADN)

Transport by land according to

not applicable

ADR/RID

not applicable

Marine transport in accordance with

not applicable

IMDG

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to

NO DANGEROUS GOODS

ADR/RID

Inland navigation (ADN) NO DANGEROUS GOODS

IMDG

Marine transport in accordance with NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to

not applicable

ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with

not applicable

IMDG

Air transport in accordance with IATA not applicable



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14.4 Packing group

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with

IMDG

not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to

ADR/RID

no

no

Inland navigation (ADN)

Marine transport in accordance with

IMDG

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS

2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131;

(EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707

- Comment on component parts

- Annex XIV (REACH)

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%. According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain

any substances ≥ 0.1% that are subject to authorisation.

- Annex XVII (REACH) According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1%

of substances with the following restrictions. 27, 75

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is not subject to

any restrictions.

TRANSPORT-REGULATIONS

NATIONAL REGULATIONS (EU):

- Observe employment restrictions for people

- VOC (2010/75/CE)

15.2 Chemical safety assessment

ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H412 Harmful to aquatic life with long lasting effects.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H302 Harmful if swallowed.



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16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ATE = acute toxicity estimate

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level

EC50 = Median effective concentration

ECB = European Chemicals Bureau EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

EL50 = Median effective loading

ELINCS = European List of Notified Chemical Substances

EmS = Emergency Schedules

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform ChemicaL Information Database

IVIS = In vitro irritation score

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose

LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LL50 = Median lethal loading

LQ = Limited Quantities

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV®/TWA = Threshold limit value - time-weighted average

TLV®STEL = Threshold limit value - short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

16.3 Other information

This document does not comply with Regulation (EC) No 1907/2006, article 31 (5) and may be used for internal purposes only.

Classification procedure

Modified position none

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