Safety data sheet

according to ChemV 2015 – SR 813.11

Printing date 19.10.2026 *Version number 2.0 (replaces version 1.0)* *Revision: 05.01.2026*

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

1.1 Product identifier

Trade name: deconex 21 LAB CLF

UFI: PYY5-F0T9-T006-M2V6

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

For industrial and commercial use only.

Application of the substance / the mixture Cleaning material/ Detergent

1.3 Details of the supplier of the safety data sheet

Manufacturer:

Borer Chemie AG
Gewerbestr. 13
CH-4528 Zuchwil
Schweiz
office@borer.ch
Telefon: +41 32 686 56 00
Telefax: +41 32 686 56 90

Supplier:

Borer Chemie AG
Gewerbestr. 13
CH-4528 Zuchwil
Schweiz
office@borer.ch
Telefon: +41 32 686 56 00
Telefax: +41 32 686 56 90

Further information obtainable from: product.safety@borer.ch

1.4 Emergency telephone number:

Swiss Toxicological Information Centre
24 hour emergency number: +41 44 251 51 51

*

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

(Contd. on page 2)

Safety data sheet

according to ChemV 2015 – SR 813.11

Printing date 19.10.2026 *Version number 2.0 (replaces version 1.0)* *Revision: 05.01.2026*

Trade name: deconex 21 LAB CLF

(Contd. of page 1)

Skin Irrit. 2 H315 Causes skin irritation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS05

Signal word Danger

Hazard-determining components of labelling:

tripotassium phosphate

dipotassium trioxosilicate

Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements

P280	Wear protective gloves / eye protection / face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.

2.3 Other hazards

The substances in the mixture do not meet PBT/vPvB criteria according to REACH Annex XIII.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 7320-34-5 EINECS: 230-785-7	Tetrapotassiumdiphosphate Eye Irrit. 2, H319	≥15–<30%

(Contd. on page 3)

Safety data sheet

according to ChemV 2015 – SR 813.11

Printing date 19.10.2026 *Version number 2.0 (replaces version 1.0)* *Revision: 05.01.2026*

Trade name: deconex 21 LAB CLF

(Contd. of page 2)

CAS: 7778-53-2 EINECS: 231-907-1	tripotassium phosphate Eye Dam. 1, H318; STOT SE 3, H335	≥5–<15%
CAS: 1312-76-1 EINECS: 215-199-1	dipotassium trioxosilicate Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318	≥5–<15%

Regulation (EC) No 648/2004 on detergents / Labelling for contents	
phosphates	≥15 - <30%
phosphonates	<5%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
General information: Immediately remove any clothing soiled by the product.
After inhalation:
In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air.
After skin contact: Immediately wash with water and soap and rinse thoroughly.
After eye contact:
Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing: If symptoms persist consult doctor.
4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.
4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media The product does not burn
Suitable extinguishing agents:
Use fire extinguishing methods suitable to surrounding conditions.
Water spray
Foam
Fire-extinguishing powder
For safety reasons unsuitable extinguishing agents: Full water jet
5.2 Special hazards arising from the substance or mixture
No further relevant information available.

(Contd. on page 4)

Safety data sheet

according to ChemV 2015 – SR 813.11

Printing date 19.10.2026 *Version number 2.0 (replaces version 1.0)* *Revision: 05.01.2026*

Trade name: deconex 21 LAB CLF

(Contd. of page 3)

5.3 Advice for firefighters
Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions:
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to section 13.
6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling No special precautions are necessary if used correctly.
Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Do not store together with acids.
Further information about storage conditions:
Optimum storage temperature 20°C. For details, see the product label.
Storage class (TRGS 510): 12
7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

(Contd. on page 5)

Safety data sheet

according to ChemV 2015 – SR 813.11

Printing date 19.10.2026 *Version number 2.0 (replaces version 1.0)* *Revision: 05.01.2026*

Trade name: deconex 21 LAB CLF

(Contd. of page 4)

DNELs	
CAS: 7320-34-5 Tetrapotassiumdiphosphate	
DNEL (Inhalation)	2.79 mg/m³ (Employee)

PNECs	
CAS: 7320-34-5 Tetrapotassiumdiphosphate	
PNEC	0.05 mg/l (Freshwater) 50 mg/l (Wastewater treatment plant) 0.005 mg/l (Sea water)

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Control potential exposure through measures such as encapsulated or self-contained systems, properly designed and maintained installations and sufficient ventilation standards. Shut down systems and empty pipelines before opening the plant. Wherever possible, shut down and flush the plant before maintenance work. If there is potential for exposure: Ensure that key personnel have been informed regarding the nature of the exposure and basic methods for minimising exposure. Ensure that suitable personal protective equipment is available. In agreement with legal requirements, absorb any spills and dispose of waste. Monitor the effectiveness of control measures; consider the need for health monitoring; identify and implement corrective measures.

Appropriate engineering controls No further data; see section 7.

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the skin.
Avoid contact with the eyes and skin.

Respiratory protection: Not required.

Hand protection

The protective gloves to be used must satisfy the specification of EC Directive 89/686/EEC and the resulting EN374 standard.



Protective gloves

Material of gloves

Recommended thickness of the material: ≥ 0.7 mm
Nitrile rubber, NBR

Penetration time of glove material Penetration time: > 480 min.

(Contd. on page 6)

Safety data sheet

according to ChemV 2015 – SR 813.11

Printing date 19.10.2026 *Version number 2.0 (replaces version 1.0)* *Revision: 05.01.2026*

Trade name: deconex 21 LAB CLF

(Contd. of page 5)

Eye/face protection



Tightly sealed goggles (EN 166)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Physical state	Liquid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Not relevant
Boiling point or initial boiling point and boiling range	100 °C
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not applicable.
Upper:	Not applicable.
Flash point:	Not relevant
Decomposition temperature:	>230 °C
pH at 20 °C	12.6
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	23 hPa
Density and/or relative density	
Density at 20 °C:	1.4 g/cm³
Vapour density	Not relevant

9.2 Other information

Appearance:	
Form:	Fluid
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.

(Contd. on page 7)

Safety data sheet

according to ChemV 2015 – SR 813.11

Printing date 19.10.2026 *Version number 2.0 (replaces version 1.0)* *Revision: 05.01.2026*

Trade name: deconex 21 LAB CLF

(Contd. of page 6)

Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Softening point/range	
Oxidising properties	Not relevant
Evaporation rate	Not relevant

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.
10.2 Chemical stability
Thermal decomposition / conditions to be avoided: Thermal decomposition above 230 °C.
10.3 Possibility of hazardous reactions Exothermic reaction with: Acids
10.4 Conditions to avoid No further relevant information available.
10.5 Incompatible materials: Do not store together with acids.
10.6 Hazardous decomposition products:
Thermal decomposition can cause the release of irritant gases and vapours.

(Contd. on page 8)

Safety data sheet

according to ChemV 2015 – SR 813.11

Printing date 19.10.2026 *Version number 2.0 (replaces version 1.0)* *Revision: 05.01.2026*

Trade name: deconex 21 LAB CLF

(Contd. of page 7)

SECTION 11: Toxicological information

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

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
CAS: 7320-34-5 Tetrapotassiumdiphosphate		
Dermal	LD50	7940 mg/kg (Rabbit)
CAS: 7778-53-2 tripotassium phosphate		
Dermal	LD50	7340 mg/kg (Rabbit)

Primary irritant effect:

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye damage.

11.2 Information on other hazards

Endocrine disrupting properties
None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:	
CAS: 7320-34-5 Tetrapotassiumdiphosphate	
LC50/48h	>100 mg/l (Daphnia)
LC50/96h	>100 mg/l (Fish)
CAS: 7778-53-2 tripotassium phosphate	
LC50/96h	>100 mg/l (Fish)
EC50/48h	>100 mg/l (Daphnia)
EC50/72h	>100 mg/l (Algae)
CAS: 1312-76-1 dipotassium trioxosilicate	
LC50/96h	>146 mg/l (Fish)
EC50/48h	>146 mg/l (Daphnia)

12.2 Persistence and degradability

Biodegradability according to OECD >90 %

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment No further relevant information available.

PBT: Not applicable.

(Contd. on page 9)

Safety data sheet

according to ChemV 2015 – SR 813.11

Printing date 19.10.2026 *Version number 2.0 (replaces version 1.0)* *Revision: 05.01.2026*

Trade name: deconex 21 LAB CLF

(Contd. of page 8)

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

COD-value: 9.00 g/kg

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN number or ID number

ADR, IMDG, IATA not regulated

14.2 UN proper shipping name

ADR, IMDG, IATA not regulated

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class not regulated

14.4 Packing group

ADR, IMDG, IATA not regulated

14.5 Environmental hazards: Not applicable.

14.6 Special precautions for user Not applicable.

(Contd. on page 10)

Safety data sheet

according to ChemV 2015 – SR 813.11

Printing date 19.10.2026 *Version number 2.0 (replaces version 1.0)* *Revision: 05.01.2026*

Trade name: deconex 21 LAB CLF

(Contd. of page 9)

14.7 Maritime transport in bulk according to IMO instruments Not applicable.
UN "Model Regulation": not regulated

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
822.115, Youth Employment Protection Ordinance - ArGV 5 and 822.115.2, WBF Ordinance on Hazardous Work for Young People are not applicable.
ArGV 1 and 822.111.52, WBF Ordinance on Hazardous and Onerous Work in Pregnancy and Maternity is not applicable.

Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The information in this safety data sheet is correct to the best of our knowledge at the time of printing. The information is intended to provide you with reference points for the safe handling of the product specified in this safety data sheet when storing, processing, transporting and disposing of it. The information is not transferable to other products. Insofar as the product is mixed or processed with other materials, or is subject to processing, the information in this safety data sheet, unless expressly indicated otherwise, cannot be transferred to the resulting new material.

Relevant phrases
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Department issuing SDS: product.safety@borer.ch
Contact: product.safety@borer.ch
Abbreviations and acronyms:
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances

(Contd. on page 11)

Safety data sheet

according to ChemV 2015 – SR 813.11

Printing date 19.10.2026 *Version number 2.0 (replaces version 1.0)* *Revision: 05.01.2026*

Trade name: deconex 21 LAB CLF

(Contd. of page 10)

CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Met. Corr.1: Corrosive to metals – Category 1
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

*** Data compared to the previous version altered.**

CH_EN