

Revision date: 28.04.2026

Version: V7

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1. IDENTIFICATION OF THE SUBSTANCE**1.1. Product identifier**

Trade name	Xioneer VXL EX
Product type	Cleaning agent, alkaline
UFI	9300-P0FR-K00Q-GV5S

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

Relevant identified uses:	Laboratory chemical, Laboratory and analytical use
Uses advised against:	Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Manufacturer:	BellandTechnology AG
	Kühlenfelserstr. 47
	D-91278 Pottenstein
Telephone	+49 (0) 171 220 006 7
Distributor:	BellandTechnology AG
	Kühlenfelser Str. 47
	D-91278 Pottenstein
Telephone	+49 (0) 171 220 006 7
E-Mail	wecanhelp@xioneer.com
Responsible Department	BellandTechnology AG
	Geschäftsleitung
	wecanhelp@xioneer.com

1.4. Emergency telephone number

+49 89 19240
Poison Center Munich
Klinikum rechts der Isar, Abt. für klinische Toxikologie

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2. IDENTIFICATION OF HAZARDS**2.1. Classification of the substance or mixture****Classification (REGULATION (EC) No. 1272/2008)**

REGULATION (EC) No. 1272/2008

Eye irritation, category 2

H 319: Causes serious eye irritation. (Calculation method)

2.2. Labeling elements**Labeling (REGULATION (EC) No. 1272/2008)**

REGULATION (EC) No. 1272/2008

Hazard pictograms:



Signal word:

Warning

Hazard statements:

H319 Causes eye irritation.

Precautionary statements:

P102 Keep out of reach of children.

P101 If medical advice is needed, have product container or label at hand.

P280 Wear 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.

P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container to an appropriate recycling or disposal facility

2.3. Other hazards

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

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
SODIUM CARBONATE	497-19-8 207-838-8 011-005-00-2 01-2119485498-19	Eye Irrit. 2; H319	>30
SODIUM DISSILICATE	1344-09-8 215-687-4 -/- 01-2119448725-31	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	<10

For explanation of abbreviations see section 16.

Further Information:

Labelling for contents according to regulation (EC) No. 648/2004: < 5% anionic surfactants

4. FIRST AID MEASURES

4.1. Description of first aid measures

General information:	Move victim out of danger zone.
After inhalation:	Following Inhalation: Move victim to fresh air. Consult physician. If unconscious place in recovery position and seek medical advice.
After contact with eyes:	In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Remove contact lenses, if resented and easy to do. Continue rinsing.
After contact with skin:	After contact with skin, wash immediately with: Water and soap. In case of skin irritation, seek medical.
After ingestion:	Let water be drunken in little sips (dilution effect). Call a physician immediately. If SWALLOWED: rinse mouth. Do NOT induce vomiting. Caution if victim vomits: Risk of aspiration! Let water be drunken in little sips (dilution effect). If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

Irritation

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

Treat symptomatically

5. FIREFIGHTING MEASURES**5.1. Extinguishing media**

Water spray jet / Foam / Carbon dioxide (CO₂) / Dry extinguishing powder / Extinguishing powder
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media: Full water jet**5.2. Special hazards arising from the substance or mixture**

Hazardous combustion products: Carbondioxide (CO₂), Carbonmonoxide (CO), Nitrogen Oxides (NO_x).

5.3. Advice to firefighters

Special protective equipment for firefighters:	Wear self-contained breathing apparatus. Wear chemical resistant suit. In case of fire and/or explosion do not breathe fumes.
Additional information:	Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose of waste according to applicable legislation.

6. ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Avoid contact with skin, eyes and clothes. Do not breathe dust.
Wear personal protection equipment.
High slip hazard because of leaking or spilled product.
Avoid contact with skin and eyes.

6.2. Methods and material for containment and cleaning up

Take up mechanically, avoid dust
Contaminated fire-fighting water must be collected separately.
Do not allow to enter into soil/subsoil.
Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Environmental precautions

Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

For safe handling see section 7, for personal protection see section 8, incompatible materials: see section 10, disposal considerations: see section 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid dust formation.

Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs

7.2. Conditions for safe storage, including any incompatibilities

Store in a dry place.

Incompatible substances or mixtures

Observe hints for combined storage.

Protect against external exposure, such as humidity

Consideration of other advice:

Ventilation requirements

Use local and general ventilation.

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C

7.3. Specific end use(s)

No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

This information is not available

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If local exhaust ventilation is not possible or not sufficient the entire working area should be ventilated by technical means.

Protective and hygiene measures

Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and after work. Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Keep away from: food, feeding stuff.

Eye/face protection

Use safety goggles with side protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must

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be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Recommendation: Disposable gloves

Recommended material: NBR (Nitrile rubber), >0,11mm thickness, >480 minutes breakthrough time (permeation level 6)

Skin protection

Wear suitable protective clothing.

Respiratory protection

Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 filter

Environmental exposure controls

Do not allow uncontrolled leakage of product into the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Fundamental physical and chemical properties

state of matter	Solid
Form	powder
Color	White
Smell	Odourless
Melting point/freezing point	100 °C (release of crystal water)
Boiling point or beginning of boiling and boiling range	not determined
flammability	Non-flammable
Lower and upper explosion limits	not determined
Flash point	not applicable
Auto-ignition temperature	not determined
Decomposition temperature	>100 °C (release of crystal water)
pH	11.4 (10% in aqueous solution)
Kinematic viscosity	not relevant

Solubility(s)

Water solubility	250 g/l at 20 °C
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Distribution coefficient

Partition coefficient n-octanol/water (logvalue):	not relevant (inorganic)
Vapour pressure	not determined
Density	2.25 g/cm ³ at 20 °C
Bulk density	~820 kg/m ³

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Particle Properties

No data is available.

Other safety-related parameters

Oxidizing properties

none

9.2. Other information

Information with regard to physical hazard classes:

hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics:

There is no additional information.

10. STABILITY AND REACTIVITY

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Violent reaction with: Alkali metals, Alkaline earth metal, Nitro compound, Strong acids

10.4. Conditions to avoid

Exposure to moisture or heat. Decomposition above 400°C

10.5. Incompatible materials

Aluminium, zinc, light metals

10.6. Hazardous decomposition products

Hazardous decomposition products: see section 5.

11. TOXICOLOGICAL INFORMATION

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

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

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Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics**• If swallowed**

Data are not available.

• If in eyes

Causes serious eye irritation.

• If inhaled

Inhalation of dust may cause irritation of the respiratory system.

• If on skin

Frequently or prolonged contact with skin may cause dermal irritation.

• Other information

None

11.2. Endocrine disrupting properties

Not listed.

11.3. Information on other hazards

There is no additional information

12. ECOLOGICAL INFORMATION**12.1. Toxicity**

The product is not ecotoxic.

Components:**SODIUM CARBONATE:**

Toxicity to fish:

LC50 (Lepomis macrochirus (Bluegill sunfish)):
300 mg/l

Exposure time: 96 h

Toxicity to daphnia and other
aquatic invertebrates:EC50 (Ceriodaphnia dubia (water flea)): 265 mg/l
Exposure time: 48 h

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12.2. Persistence and degradability**Product:**

Biodegradability:

The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Theoretical Carbon Dioxide: 0,4152 mg/mg

12.3. Bio accumulative potential

No indication of bioaccumulation potential.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

Not listed.

12.7. Other adverse effects:

No information available.

13. DISPOSAL CONSIDERATIONS**13.1. Waste treatment process**

This product and its container are to be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Information relevant for disposal via wastewater

Do not allow to get into the sewer system.

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13.2 Relevant legislation on waste

The assignment of waste code numbers/waste designations must be carried out in accordance with EAKV industries and process-specific. Waste List Ordinance (The AVV replaces the EAK Regulation/European Waste Catalogue Regulation).

13.3 Notes

Waste must be separated in such a way that it can be treated separately from municipal or national waste management facilities. Please refer to the relevant national or regional regulations.

14. TRANSPORT INFORMATION**Land transport (ADR/RID)**

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards:

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

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

No dangerous good in sense of this transport regulation.

15. REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National rules**

Water hazard class:

1 – low water hazard

Status:

Mixing rule according to Appendix 1 No. 5 AwSV

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Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Not listed

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - Candidate List

Not listed.

Seveso Policy

2012/18/EU (Seveso III)		
No.	Hazardous Substance/Hazard Categories	Quantity threshold (in tonnes) for use in lower and upper class establishments
	unassigned	

Decopaint Directive (2004/42/EC)

VOC content	0% 0g/l
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Industrial Emissions Directive (VOCs, 2010/75/EU)

VOC content	0%
VOC content	0g/l

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in Electrical and Electronic Equipment (RoHS) - Annex II

Not listed

Regulation 166/2006/EC on the establishment of a European Pollutant Release and Shipment Registry (PRTR)

Not listed

Water Framework Directive (WFD)

List of pollutants (WFD)			
Substance	Name according to directory	CAS No.	Listed
Natriumcarbonate	Metals and metal compounds		A)

Legend

A) Non-exhaustive list of main pollutants

Regulation 98/2013/EU on the marketing and use of precursors for Explosives

Not listed

Regulation 111/2005/EC laying down rules for the supervision of trade in

Drug substitutes between the Community and third countries

Not listed

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Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)

Not listed

Regulation 649/2012/EU on the export and import of hazardous chemicals (PIC)

Not listed

National Regulations (Germany)

Ordinance on Installations for the Handling of Substances Hazardous to Water (AwSV)

Water hazard class (WGK): 1 (slightly hazardous to water)

Identification number: 222

Technical Guidance on Air Pollution Control (Germany)

Number	Group of substances	Class	Konz.	Mass flow	Mass concentration	Hint
5.2.1	Total dust, including particulate matter		≥ 25% by weight	0.2 kg/h	20 mg/m ³	2)

Hint

2) Even if a mass flow rate of 0.20 kg/h is maintained or undercut, the mass concentration in the exhaust gas must not exceed 0.15 g/m³.

Storage of hazardous substances in transportable containers (TRGS 510) (Germany)

Storage class (LGK): 13 (non-combustible solids)

National Directories

Land	Directory	Status
OUCH	AICS	listed
CN	IECSC	isted
EU	ECSI	listed
EU	REACH Reg.	listed
NZ	NZIoC	listed
PH	PICCS	listed
TR	ICRC	listed
TW	TCSI	listed

Legend

AICS	Australian Inventory of Chemical Substances
CICR	Chemical Inventory and Control Regulation
ECSI	EC List of Substances (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH Registered Substances
TCSI	Taiwan Chemical Substance Inventory

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

16. OTHER INFORMATION

Indication of changes (revised safety data sheet)

Alignment to regulation: Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Restructuring: section 9, section 14

Abbreviations and acronyms

ADN Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

ADR Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

DGR Dangerous Goods Regulations (see IATA/DGR)

EC50 Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval

EC No The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

GHS "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations

IATA International Air Transport Association

IATA/DGR Dangerous Goods Regulations (DGR) for the air transport (IATA)

ICAO International Civil Aviation Organization

IMDG International Maritime Dangerous Goods Code

index No The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008

LC50 Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval

LD50 Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval

NLP No-Longer Polymer

PBT Persistent, Bioaccumulative and Toxic

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)

SVHC Substance of Very High Concern

VOC Volatile Organic Compounds

vPvB Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). International

Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport

(IATA).

Changes

This data sheet contains changes from the previous version in section(s): 2,3,9,14,15.

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Eye Irrit. 2

H315 Calculation method

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Relevant H and EUH statements (number and full text)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Responsible Department

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