

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name

PREMIX B3

UFI:

TC00-N088-H00W-GXNP



<https://my.chemius.net/p/b7i5Vi/en/pd/en>

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

Relevant identified uses

The mixture of raw materials for the production of detergents.

Uses advised against

Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer

SILKEM, d. o. o.
Tovarniška cesta 10
2325 Kidričevo, Slovenia
+386 2 7991 200
info@silkem.si

1.4 Emergency Telephone Number

Emergency

112

Manufacturer

+386 2 7991 208 (7h - 15h)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Skin Irrit. 2; H315 Causes skin irritation.

Eye Dam. 1; H318 Causes serious eye damage.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]**Signal word: Danger****Hazard statements:**

H315 Causes skin irritation.

H318 Causes serious eye damage.

Supplemental hazard information (EU):

Not applicable.

Precautionary statements:

P264 Wash hands, face and exposed skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/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.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

Contains:

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts

Silicic acid, sodium salt (1,6 < MR ≤ 2,6)

2.3 Other hazards

PBT/vPvB

No information.

Endocrine disrupting properties

No information.

Additional information

The substances in the mixture are not classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

For mixtures see 3.2.

3.2 Mixtures

Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	Notes for substances
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	1318-02-1 930-915-9 - 01-2119429034-49-0017	69-75	/	/	/
Sodium sulphate	7757-82-6 231-820-9 -	10-12	/	/	/
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	68411-30-3 270-115-0 - 01-2119489428-22	7.5-8.5	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	oral: ATE = 1200 mg/kg bw	/
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	1344-09-8 215-687-4 - 01-2119448725-31-0029	4.5-5.5	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	/	/
Fatty acids, C16-18, sodium salts	68424-38-4 270-299-2 -	2.9-3.1	/	/	/

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency.

Following inhalation

Remove patient to fresh air - move out of dangerous area. If symptoms develop and persist, seek medical attention.

Following skin contact

Take off all contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms develop and persist, seek medical attention.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Consult a physician. Show the physician the safety data sheet or label.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

Can cause irritation of respiratory system.

Following skin contact

Itching, redness, pain.

Following eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

Following ingestion

Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area. May cause nausea/vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

No information.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

No information.

5.3 Advice for firefighters

Protective actions

In case of fire do not breathe fumes/gases.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

Additional information

No information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel**Protective equipment**

Use personal protective equipment (Section 8). Avoid contact with the eyes and skin.

Precautionary measures

Ensure adequate ventilation.

Emergency procedures

No information.

For emergency responders

No information.

6.2 Environmental precautions

If accidental large entry into water or ground occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

For containment

No information.

For cleaning up

Collect in a suitable container and dispose of according to regulations.

OTHER INFORMATION

No information.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures**Measures to prevent fire**

Ensure adequate ventilation.

Measures to prevent aerosol and dust generation

Prevent dusting.

Measures to protect the environment

No information.

Other measures

No information.

Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin and eyes. Do not breathe dust.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep in cool and well ventilated area. Keep away from food, drink and animal feeding stuffs.

Packaging materials

No information.

Requirements for storage rooms and vessels

No information.

Storage class

No information.

Further information on storage conditions

No information.

7.3 Specific end use(s)

Recommendations

No information.

Industrial sector specific solutions

No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limit values

Name	mg/m ³	ml/m ³	Short-term value mg/m ³	Short-term value ml/m ³	Remark	Biological Tolerance Values
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	10	/	/	/	WEL long-term, inhalable	/
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	4	/	/	/	WEL long-term, respirable	/
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	10	/	/	/	UK, DE, IUCLID	/

Information on monitoring procedures

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values

For product

No information.

For components

Name	Type	Exposure route	exp. frequency	Remark	value
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	Worker	inhalation	long term	/	3 mg/m ³
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	Worker	dermal	long term	/	2.5 mg/kg bw/day
Sodium sulphate	Worker	inhalation	long term systemic effects	/	20 mg/m ³
Sodium sulphate	Worker	inhalation	long term local effects	/	20 mg/m ³
Sodium sulphate	Consumer	inhalation	long term systemic effects	/	12 mg/m ³
Sodium sulphate	Consumer	inhalation	long term local effects	/	12 mg/m ³
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Worker	dermal	long term systemic effects	/	170 mg/kg
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Worker	inhalation	long term systemic effects	/	12 mg/m ³
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Consumer	oral	long term systemic effects	/	0.85 mg/kg
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Consumer	dermal	long term systemic effects	/	85 mg/kg
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Consumer	inhalation	long term systemic effects	/	3 mg/m ³
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Worker	inhalation	long term local effects	/	12 mg/m ³
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Consumer	inhalation	long term local effects	/	3 mg/m ³
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	Worker	dermal	long term systemic effects	/	1.59 mg/kg bw/day
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	Worker	inhalation	long term systemic effects	/	5.61 mg/m ³

Name	Type	Exposure route	exp. frequency	Remark	value
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	Consumer	dermal	long term systemic effects	/	0.8 mg/kg bw/day
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	Consumer	inhalation	long term systemic effects	/	1.38 mg/m ³
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	Consumer	oral	long term systemic effects	/	0.8 mg/kg bw/day

PNEC values**For product**

No information.

For components

Name	Exposure route	Remark	value
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	fresh water	/	3.2 mg/L
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	marine water	/	0.32 mg/L
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	soil	/	600 mg/kg dw
Sodium sulphate	fresh water	/	11.09 mg/L
Sodium sulphate	marine water	/	1.109 mg/L
Sodium sulphate	water treatment plant	/	800 mg/L
Sodium sulphate	fresh water sediment	/	40.2 mg/kg
Sodium sulphate	marine water sediment	/	4.02 mg/kg
Sodium sulphate	soil	/	1.54 mg/kg
Sodium sulphate	water, intermittent release	/	17.66 mg/L
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	fresh water	/	0.268 mg/L
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	marine water	/	0.0268 mg/L
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	soil	/	35 mg/kg
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	fresh water sediment	/	8.1 mg/kg
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	marine water sediment	/	8.1 mg/kg
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	water treatment plant	/	2.43 mg/L
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	water, intermittent release	/	0.00167 mg/L
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	fresh water	/	7.5 mg/L

Name	Exposure route	Remark	value
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	marine water	/	1 mg/L
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	water, intermittent release	/	7.5 mg/L
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	fresh water sediment	/	7.5 mg/kg
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	water treatment plant	/	348 mg/L
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	food chain	oral	348 mg/kg

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

Personal protective equipment

Eye and face protection

Tight fitting protective goggles (EN 166).

Hand protection

Protective gloves (EN 374).

Appropriate materials

No information

Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Mask with dust filter (P2) or FFP2 (EN 149).

Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

No information.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

No information.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state

solid

Colour

white

Odour

no odour

Important health, safety and environmental information

Odour threshold	No information.
Melting point/Freezing point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	10.5 – 11 , conc. 1 %
Viscosity	No information.
Solubility	Water: Soluble
Partition coefficient	No information.
Vapour pressure	No information.
Density and/or relative density	Bulk density: 350 – 450 kg/m ³
Relative vapour density	No information.
Particle characteristics	No information.

9.2 OTHER INFORMATION

Explosive properties	Product is not explosive.
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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No information.

10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

No information.

10.4 Conditions to avoid

No special precautions required. Consider the directions for use and storage.

10.5 Incompatible materials

No specific incompatible substances.

10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

SECTION 11: TOXICOLOGICAL INFORMATION

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

(a) Acute toxicity

For components

Name	Exposure route	Type	Species	Time	value	Method	Remark
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	oral	LD ₅₀	Dog	/	1000 - 31600 mg/kg	/	/
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	oral	LD ₅₀	rat	/	5000 - 31600 mg/kg	/	/
Sodium sulphate	oral	LD ₅₀	rat	/	2001 mg/kg	OECD 401	/
Sodium sulphate	inhalation	LC ₅₀	rat	4 h	5.01 mg/l	OECD 436	/
Sodium sulphate	oral	ATE	/	/	2001 mg/kg bw	/	/
Sodium sulphate	inhalation	ATE	/	4 h	5.01 mg/l	/	/
benzenesulfo nic acid, C10-13-alkyl derivatives, sodium salts	oral	LD ₅₀	rat	/	1260 mg/kg	/	/
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	oral	LD ₅₀	rat	/	> 2000 mg/kg	/	/

(b) Skin corrosion/irritation

For components

Name	Species	Time	result	Method	Remark
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	/	/	Non-irritant.	/	/
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	rabbit	/	Irritating.	OECD 404	/
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	/	/	Contact with skin causes irritation.	/	/

(c) Serious eye damage/irritation**For components**

Name	Exposure route	Species	Time	result	Method	Remark
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	/	rabbit	/	Danger of serious eye injury.	OECD 405	/
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	/	/	/	Severely irritating; causes tearing	/	/

(d) Respiratory or skin sensitisation**For components**

Name	Exposure route	Species	Time	result	Method	Remark
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	-	/	/	Non sensitising.	/	/
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	-	guinea pig	/	Non sensitising.	OECD 406	/
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	dermal	mouse	/	Non sensitising.	OECD 429	/

(e) (Germ cell) mutagenicity**For components**

Name	Type	Species	Time	result	Method	Remark
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	/	/	/	Negative.	/	/

Name	Type	Species	Time	result	Method	Remark
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	in-vitro mutagenicity	/	/	Non-mutagenic.	/	/
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	in-vivo mutagenicity	/	/	Non-mutagenic.	/	/
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	/	/	/	Not mutagenic.	/	/

(f) Carcinogenicity**For components**

Name	Exposure route	Type	Species	Time	value	result	Method	Remark
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	/	/	/	/	/	negative	/	/
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	/	/	/	/	/	Not carcinogenic.	/	/
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	/	/	/	/	/	Not carcinogenic.	/	/

(g) Reproductive toxicity**For components**

Name	Reproductive toxicity type	Type	Species	Time	value	result	Method	Remark
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	-	-	/	/	/	Negative.	/	/
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Reproductive toxicity	NOAEL (P)	rat	2 years	350 mg/kg bw/day	/	/	oral

Name	Reproductive toxicity type	Type	Species	Time	value	result	Method	Remark
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Reproductive toxicity	NOAEL (F1/F2)	rat	2 years	350 mg/kg bw/day	/	/	oral
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	/	/	/	/	/	Not toxic for reproduction.	/	/
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Teratogenicity	NOAEL	rat	20 days	300 mg/kg bw/day	/	/	oral
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Teratogenicity	NOAEL	rat (female)	20 days	300 mg/kg bw/day	/	/	oral
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Teratogenicity	NOAEL	mouse	20 days	300 mg/kg bw/day	/	/	oral
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Teratogenicity	NOAEL	mouse	20 days	2 mg/kg bw/day	/	/	oral
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	/	-	/	/	/	not teratogenic	/	/
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	/	/	/	/	/	Not toxic for reproduction.	/	/

Summary of evaluation of the CMR properties

No information.

(h) STOT-single exposure

For components

Name	Exposure route	Type	Species	Time	Exposure	organ	value	result	Method	Remark
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	-	-	/	/	/	/	/	Not reported to have any specific target organ general toxicity single exposure effects.	/	/
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	oral	-	/	/	/	/	/	May cause nausea/vomiting and diarrhea	/	/
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	inhalation	/	/	/	/	/	/	Causes respiratory tract irritation.	/	/

(i) STOT-repeated exposure**For components**

Name	Exposure route	Type	Species	Time	Exposure	organ	value	result	Method	Remark
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	-	-	/	/	/	/	/	Not reported to have any specific target organ general toxicity repeat exposure effects.	/	/
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	oral	NOAEL	rat	28 days	/	blood, liver, heart, thymus	125 mg/kg bw/day	increase in body weight, diarrhea	/	literature
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	oral	LOAEL	rat	28 days	/	blood, liver, heart, thymus	250 mg/kg bw/day	increase in body weight, diarrhea	/	literature

Name	Exposure route	Type	Species	Time	Exposure	organ	value	result	Method	Remark
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	-	NOAEL	rat	6 months	/	Blood, Kidney	40 mg/kg bw/day	increase in body weight, diarrhea	/	literature
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	-	LOAEL	rat	6 months	/	Blood, Kidney	115 mg/kg bw/day	increase in body weight, diarrhea	/	literature
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Oral (drinking water)	NOAEL	rat	9 months	/	blood	85 mg/kg bw/day	weight gain	/	literature
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Oral (drinking water)	LOAEL	rat	9 months	/	blood	145 mg/kg bw/day	weight gain	/	literature

(j) Aspiration hazard

No information.

Symptoms related to the physical, chemical and toxicological characteristics

No information.

Interactive effects

No information.

11.2 Information on other hazards**Endocrine disrupting properties**

No information.

Other information

No information.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity****Acute (short-term) toxicity****For components**

Name	Type	value	Exposure time	Species	organism	Method	Remark
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	EC ₅₀	> 100 mg/L	48 h	daphnia	/	/	/
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	LC ₅₀	> 680 mg/L	96 h	fish	/	/	/
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	EC ₅₀	> 300 mg/L	96 h	algae	/	/	/
Sodium sulphate	LC ₅₀	7960 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
Sodium sulphate	EC ₅₀	1766 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
Sodium sulphate	EC ₅₀	1900 mg/L	72 h	algae	<i>Nitzschia linearis</i>	/	/
benzenesulfo nic acid, C10-13-alkyl derivatives, sodium salts	LC ₅₀	1.67 mg/L	96 h	fish	<i>Lepomis macrochirus</i>	/	/
benzenesulfo nic acid, C10-13-alkyl derivatives, sodium salts	EC ₅₀	2.9 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
benzenesulfo nic acid, C10-13-alkyl derivatives, sodium salts	EC ₅₀	29 mg/L	96 h	algae	<i>Selenastrum capricornutum</i>	/	/
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	LC ₅₀	478 - 3158 mg/L	96 h	fish	/	/	/
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	LC ₅₀	301 - 478 mg/L	96 h	fish	/	/	/
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	EC ₅₀	216 - 18000 mg/L	96 h	algae	/	/	/

Chronic (long-term) toxicity**For components**

Name	Type	value	Exposure time	Species	organism	Method	Remark
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	NOEC	> 86.7 mg/l	/	fish	/	/	/
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	NOEC	32 mg/l	/	aquatic invertebrate	/	/	/
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	NOEC	> 200 mg/l	/	sediment organisms	/	/	/
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	LC ₅₀	9000 mg/kg soil dw	23 days	Terrestrial plants	/	OECD 208	seedling emergence
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	EC ₅₀	9000 mg/kg soil dw	/	Terrestrial plants	/	OECD 208	seedling growth
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	NOEC	5000 mg/kg soil dw	/	Terrestrial plants	/	OECD 208	/
Sodium sulphate	NOEC	8000 mg/l	/	crustacea	/	/	/
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	NOEC	0.1 - 1 mg/l	28 days	fish	<i>Lepomis macrochirus</i>	/	Growth rate, literature value

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation**For components**

Name	Type	Rate	Time	Evaluation	Method	Remark
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	aerobic	89 %	29 days	/	/	34,3 mg/l
Silicic acid, sodium salt (1,6 < MR ≤ 2,6)	-	/	/	not readily biodegradable	/	/

12.3 Bioaccumulative potential

Partition coefficient**For components**

Name	Media	value	Temperature °C	pH	Concentration	Method
Sodium sulphate	Octanol-water (log Pow)	-4.38	/	/	/	/
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Log Pow	3.32	/	/	/	/

Bioconcentration factor (BCF)**For components**

Name	Species	organism	value	Duration	Evaluation	Method	Remark
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	-	/	/	/	Does not bioaccumulate.	/	/
Sodium sulphate	BCF	/	0.5	/	/	/	/
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	BCF	/	2	/	/	/	/

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

For components

Name	Type	Criterion	value	Evaluation	Method	Remark
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Soil	log KOC	3.32	/	/	/

12.5 Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6 Endocrine disrupting properties

No information.

12.7 Other adverse effects

No information.

12.8 Additional information

For components**Zeolite, cuboidal, crystalline, synthetic, non-fibrous**

WGK: 0

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts

Low bioaccumulation potential.

Silicic acid, sodium salt (1,6 < MR ≤ 2,6)

Do not allow to reach ground water, water bodies or sewage systems.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / Packaging disposal**Waste chemical**

Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Waste codes / waste designations according to LoW

No information.

Packaging

Deliver completely emptied containers to approved waste disposal authorities.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number

ADR/RID	IMDG	IATA	ADN
Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.

14.2 UN proper shipping name

ADR/RID	IMDG	IATA	ADN
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable

14.3 Transport hazard class(es)

ADR/RID	IMDG	IATA	ADN
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable

14.4 Packing group

ADR/RID	IMDG	IATA	ADN
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable

14.5 Environmental hazards

ADR/RID	IMDG	IATA	ADN
NO	NO	NO	NO

14.6 Special precautions for user

ADR/RID	IMDG	IATA	ADN
Limited quantities: Not given/not applicable	Limited quantities: Not given/not applicable		Limited quantities: Not given/not applicable

14.7 Maritime transport in bulk according to IMO instruments

ADR/RID	IMDG	IATA	ADN
	Not given/not applicable		

SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)

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

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

not applicable

Regulation EC 648/2004 on detergents

No information.

Special instructions

No information.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

Indication of changes

2.3 Other hazards 4.1 Description of first aid measures 8.2 Exposure controls 9.1 Information on basic physical and chemical properties 9.2 OTHER INFORMATION 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 12.6 Endocrine disrupting properties 12.7 Other adverse effects 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Key literature references and sources for data

PREMIX B3, Silkem, d. o. o., Version 1.0

Abbreviations and acronyms

ATE - Acute Toxicity Estimate

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CEN - European Committee for Standardisation

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CAS# - Chemical Abstracts Service number

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level

DPD - Dangerous Preparations Directive 1999/45/EC

DSD - Dangerous Substances Directive 67/548/EEC

DU - Downstream User

EC - European Community

ECHA - European Chemicals Agency

EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)

EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)

EEC - European Economic Community

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

EN - European Standard

EQS - Environmental Quality Standard

EU - European Union

Euphrac - European Phrase Catalogue

EWC - European Waste Catalogue (replaced by LoW – see below)

GES - Generic Exposure Scenario

GHS - Globally Harmonized System

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods

IMSBC - International Maritime Solid Bulk Cargoes

IT - Information Technology

IUCLID - International Uniform Chemical Information Database

IUPAC - International Union for Pure Applied Chemistry

JRC - Joint Research Centre

Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.