Safety Data Sheet according to (EC) No 1907/2006 as amended

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Somat All in 1 Extra

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

1.1. Product identifier
Somat All in 1 Extra

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use:
auto dish washing

1.3. Details of the supplier of the safety data sheet
Henkel & Cie. AG
Aeschengraben 29
CH-4051 Basel
Phone: ++41 (0)61 825 7000

1.4. Emergency telephone number
Tox Info Suisse (24h / 7d): +41 44 251 51 51 or 145 (Switzerland and Liechtenstein).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP):
Eye Irrit. 2
H319 Causes serious eye irritation.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:

Signal word: Warning

Hazard statement: H319 Causes serious eye irritation.

EUH208 Contains Subtilisin. May produce an allergic reaction.

Precautionary statement: P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P280 Wear eye 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.

2.3. Other hazards
None if used properly.

SECTION 3: Composition/information on ingredients

3.1. Substances

3.2. Mixtures

Hazardous substances according to CLP (EC) No 1272/2008:

Hazardous substances CAS-No.	EINECS	REACH-Reg. No.	Content	Classification
Sodium carbonate 497-19-8	207-838-8		>= 40- < 60 %	Serious eye irritation 2 H319
Sodiumpercarbonate 15630-89-4	239-707-6		>= 10- < 20 %	Oxidizing solids 2 H272 Acute toxicity 4; Oral H302 Serious eye damage 1 H318
Alpha-Epoxides, reaction products with Oxo alcohol, ethoxylated			>= 1- < 5 %	Serious eye irritation 2 H319 Chronic hazards to the aquatic environment 3 H412
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	223-267-7		>= 1- < 5 %	Acute toxicity 4; Oral H302 Serious eye irritation 2 H319
Disodium disilicate 13870-28-5	237-623-4		>= 1- < 3 %	Serious eye damage 1 H318
Subtilisin 9014-01-1	232-752-2		>= 0,1- < 0,25 %	Acute toxicity 4; Oral H302 Specific target organ toxicity - single exposure 3 H335 Skin irritation 2 H315 Serious eye damage 1 H318 Respiratory sensitizer 1 H334 Acute hazards to the aquatic environment 1 H400 Chronic hazards to the aquatic environment 2 H411

For full text of the H - Phrases indicated by codes only see Section 16 "Other information".

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
In case of adverse health effects seek medical advice.

Inhalation:
Move to fresh air. In case of breathing difficulties seek immediate medical advise.

Skin contact:
Rinse with water. Take off all clothing contaminated by the product.

Eye contact:
Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Ingestion:
Rinse mouth with water, (only if the person is conscious).
Do not induce vomiting, seek medical advice immediately.

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

After inhalation: Irritation of the respiratory tract, coughing. Inhalation of larger amounts may cause laryngospasm with shortness of breath.

After skin contact: Temporary irritation of the skin (redness, swelling, burning).

After eye contact: Moderate to strong irritation of the eyes (redness, swelling, burning, watering eyes).

After ingestion: Ingestion may cause irritation of mouth, throat, digestive tract, diarrhea and vomiting. Vomit may get into the lungs causing damage (aspiration).

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

After inhalation: No special action.
After skin contact: No special action.
After eye contact: No special action.
After ingestion: Do not induce vomiting. Single administration of a non-carbonated beverage (water or tea).
After ingestion: In case of ingestion of larger or unknown quantities administer a defoamer (Dimeticon or Simeticon).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Water spray jet (if possible, avoid full jet). Adapt the fire-fighting measures to the environmental conditions. Commercially available extinguishers are suitable for fighting incipient fires. The product itself does not burn.

Extinguishing media which must not be used for safety reasons:
None

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products can be formed by pyrolysis and/or carbon monoxide.

5.3. Advice for firefighters

Use personal protective equipment and self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.
Ensure adequate ventilation.
If large amounts are released contact the fire service.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove mechanically. Rinse away residue with plenty of water.

6.4. Reference to other sections
See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling
No special measures required if used properly.

Hygiene measures:
Protective equipment only required in case of industrial use or for large packs (not for household packs)
Avoid contact with skin and eyes. Remove soiled or soaked clothing immediately. Wash off any contamination that gets onto the skin with plenty of water, skin care.

7.2. Conditions for safe storage, including any incompatibilities
Store dry at between +5 and +40°C.
Consider national regulations.

7.3. Specific end use(s)
auto dish washing

SECTION 8: Exposure controls/personal protection

Only relevant for professional/industrial use

8.1. Control parameters
Valid for
Switzerland

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Remarks
Subtilisins: Bacillomycin 9014-01-1		0,00006	Short Term Exposure Limit (STEL):		SMAK

8.2. Exposure controls

Respiratory protection:
If dust is produced wear P2 mask.

Hand protection:
For the contact with product protective gloves made from Spezial-Nitril (material thickness > 0.1 mm, break through time > 480 min class 6) are recommended according to EN 374. In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. We recommend to change single-use protective gloves periodical and a hand care plan in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:
Wear tight fitting goggles.

Skin protection:
Protective clothing against chemicals. Observe manufacturer's instructions.

SECTION 9: Physical and chemical properties

The following data apply to the whole mixture.

a) Appearance	tablet angular with hollow blue, red, blue
b) Odor	citric
c) Odour threshold	No data available / Not applicable

d) pH (20 °C (68 °F); Conc.: 10 % product; Solvent: Water)	10,1 - 11,1
e) Melting point	No data available / Not applicable
f) Initial boiling point and boiling range	No data available / Not applicable
g) Flash point	Not applicable, Product is a solid.
h) Evaporation rate	No data available / Not applicable
i) Flammability (solid , gas)	
j) Upper / lower flammability or explosive limits	No data available / Not applicable
k) Vapour pressure	No data available / Not applicable
l) Vapor density	No data available / Not applicable
m) Relative density	
Density	Not feasible due to physical state
n) Solubility (ies)	soluble in water
o) Partition coefficient: n-octanol/water	No data available / Not applicable
p) Auto-ignition temperature	No data available / Not applicable
q) Decomposition temperature	No data available / Not applicable
r) Viscosity	No data available / Not applicable
s) Explosive properties	No data available / Not applicable
t) Oxidising properties	The substance or mixture is not classified as oxidizing.

9.2. Other information

Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

None if used for intended purpose.

10.2. Chemical stability

Stable under normal conditions of temperature and pressure.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

No decomposition if used according to specifications.

10.5. Incompatible materials

None if used properly.

10.6. Hazardous decomposition products

No decomposition if used according to specifications.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Sodium carbonate 497-19-8	LD50	2.800 mg/kg	rat	not specified
Sodiumpercarbonate 15630-89-4	LD50	1.034 mg/kg	rat	EPA Guideline
Alpha-Epoxides, reaction products with Oxo alcohol, ethoxylated	LD50	> 2.000 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	LD50	940 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Disodium disilicate 13870-28-5	LD50	2.507 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Subtilisin 9014-01-1	LD50	1.800 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Sodium carbonate 497-19-8	LD50	> 2.000 mg/kg	rabbit	EPA 16 CFR 1500.40 (Method of testing toxic substances)
Sodiumpercarbonate 15630-89-4	LD50	> 2.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	LD50	> 2.300 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Disodium disilicate 13870-28-5	LC50	> 3,51 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Subtilisin 9014-01-1	LC50	> 4,34 mg/l		4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Sodium carbonate 497-19-8	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Sodiumpercarbonate 15630-89-4	not irritating		rabbit	EPA Guideline
Alpha-Epoxides, reaction products with Oxo alcohol, ethoxylated	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Disodium disilicate 13870-28-5	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Subtilisin 9014-01-1	mildly irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

The product has to be classified as eye irritation category 2 based on experimental data of an OECD 437 and an OECD 438 Test with a similar mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Sodium carbonate 497-19-8	irritating		rabbit	not specified
Sodiumpercarbonate 15630-89-4	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Alpha-Epoxides, reaction products with Oxo alcohol, ethoxylated	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Disodium disilicate 13870-28-5	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Subtilisin 9014-01-1	irritating		rabbit	Draize Test

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Sodiumpercarbonate 15630-89-4	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	not sensitising	Guinea pig maximisation test	guinea pig	Magnusson and Kligman Method
Disodium disilicate 13870-28-5	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Subtilisin 9014-01-1	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Subtilisin 9014-01-1	Sensitizing	Respiratory sensitisation	human	not specified

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Sodium carbonate 497-19-8	negative	bacterial reverse mutation assay (e.g Ames test)	with		Ames Test
Sodiumpercarbonate 15630-89-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Ames Test
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	negative	in vitro mammalian cell micronucleus test	with and without		OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
Disodium disilicate 13870-28-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Disodium disilicate 13870-28-5	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Disodium disilicate 13870-28-5	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Subtilisin 9014-01-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Subtilisin 9014-01-1	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Subtilisin 9014-01-1	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	negative	oral: gavage		mouse	equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)
Disodium disilicate 13870-28-5	negative	oral: feed		mouse	equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	not carcinogenic	oral: feed	104 w continuous	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	NOAEL P 112 mg/kg NOAEL F1 112 mg/kg	two-generation study	oral: feed	rat	equivalent or similar to OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)
Disodium disilicate 13870-28-5	NOAEL P > 159 mg/kg	multigeneration study	oral: drinking water	rat	not specified

STOT-single exposure:

No data available.

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	NOAEL 41 mg/kg	oral: feed	90 d continuous	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Disodium disilicate 13870-28-5	NOAEL > 159 mg/kg	oral: drinking water	180 d daily	rat	not specified
Subtilisin 9014-01-1	NOAEL 900 mg/kg	oral: gavage	6 weeks once daily	rat	EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Aspiration hazard:

No data available.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Sodium carbonate 497-19-8	LC50	300 mg/l	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Sodiumpercarbonate 15630-89-4	LC50	70,7 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	LC50	2.180 mg/l	96 h	Cyprinodon variegatus	not specified
Disodium disilicate 13870-28-5	LC50	> 500 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Subtilisin 9014-01-1	NOEC	0,042 mg/l	32 d	Pimephales promelas	OECD Guideline 210 (fish early lite stage toxicity test)
Subtilisin 9014-01-1	LC50	8,2 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Sodium carbonate 497-19-8	EC50	> 200 - 227 mg/l	48 h	Ceriodaphnia sp.	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Sodiumpercarbonate 15630-89-4	EC50	4,9 mg/l	48 h	Daphnia pulex	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Alpha-Epoxides, reaction products with Oxo alcohol, ethoxylated	EC50	> 1 - < 10 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	EC50	527 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Disodium disilicate 13870-28-5	EC50	> 1.000 mg/l	24 h	Daphnia magna	not specified
Subtilisin 9014-01-1	EC50	0,170 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Alpha-Epoxides, reaction products with Oxo alcohol, ethoxylated	NOEC	> 0,1 - < 1 mg/l	21 day	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	NOEC	6,75 mg/l	28 d	Daphnia magna	not specified
Subtilisin 9014-01-1	NOEC	0,324 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Sodium carbonate 497-19-8	EC50	137 mg/l	5 d	Nitzschia sp.	OECD Guideline 201 (Alga, Growth Inhibition Test)
Sodiumpercarbonate 15630-89-4	EC50	70 mg/l	240 h	Chlorella emersonii	not specified
Alpha-Epoxides, reaction products with Oxo alcohol, ethoxylated	EC50	> 10 - < 100 mg/l	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
Alpha-Epoxides, reaction products with Oxo alcohol, ethoxylated	EC0	> 1 mg/l	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
Disodium disilicate 13870-28-5	EC50	179 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Subtilisin 9014-01-1	NOEC	0,317 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Subtilisin 9014-01-1	EC50	0,83 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Sodiumpercarbonate 15630-89-4	EC0	> 1.000 mg/l	30 min		not specified
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	EC0	580 mg/l	30 min		not specified
Disodium disilicate 13870-28-5	EC50	> 100 - 1.000 mg/l	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Subtilisin 9014-01-1	EC0	300 mg/l	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)

12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Alpha-Epoxides, reaction products with Oxo alcohol, ethoxylated	readily biodegradable	aerobic	> 60 %	28 day	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	not readily biodegradable.		5 %	30 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	not inherently biodegradable		33 %	28 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Subtilisin 9014-01-1	readily biodegradable	aerobic	79 %	28 d	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)

12.3. Bioaccumulative potential

Does not bioaccumulate.

Hazardous substances CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	71	49 d	18 °C	Cyprinus carpio	not specified

12.4. Mobility in soil

Hazardous substances CAS-No.	LogPow	Temperature	Method
Subtilisin 9014-01-1	-3,1	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

12.5. Results of PBT and vPvB assessment

Hazardous substances CAS-No.	PBT / vPvB
Disodium disilicate 13870-28-5	According to Annex XIII to Regulation (EC) No 1907/2006, a PBT and vPvB assessment shall not be conducted for inorganic substances.

12.6. Other adverse effects

Other adverse effects of this product for the environment are not known to us.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

Completely empty containers can be disposed of with the municipal waste.

Waste code

20 01 30: Municipal wastes, separately collected fractions, detergents containing no dangereous substances

SECTION 14: Transport information

14.1. UN number or ID number

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.2. UN proper shipping name

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.3. Transport hazard class(es)

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.4. Packing group

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 2024/590):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable

Declaration of ingredients according to Detergent Regulation 648/2004/EC

5 - 15 %	oxygen-based bleaching agent
< 5 %	polycarboxylates
	phosphonates
	non-ionic surfactants
Further ingredients	Enzymes
	Perfumes
	Limonene
	Citrus Aurantium Peel Oil

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

H272 May intensify fire; oxidizer.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

This Safety Data Sheet contains changes from the previous version in Section(s): 1 - 16