

Safety data sheet

According to Regulation (EC) No. 1907/2006 (REACH)
Date of issue: 13.05.2019 Supersedes edition of: ---

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

1.1 Product identifier

Product name: Spülmaschinen TABS

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

Identified uses: Dishwasher Tabs

1.3 Details of the supplier of the safety data sheet

Company: Otto Oehme GmbH
Industriestraße 20
D-90584 Allersberg Deutschland
Tel. +49 9176 98050
info@oehme-lorito.de

1.4 Emergency telephone number

GIZ Nord Poisons Centre, Göttingen Tel. +49 (0) 551 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Eye Irrit. 2, H319

Full text of hazard statements: See under section 16.

2.2 Label elements

Labelling (Regulation (EC) No. 1272/2008)

Hazard pictograms:



Signal word:

Warning

Hazard statements:

H319 Causes serious eye irritation.

EUH208 Contains: Subtilisin. May produce an allergic reaction.

Precautionary statements:

P280 Wear protective gloves/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.

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2.3 Other hazards

Not known.

SECTION 3: Composition / information on ingredients

Solution in water.

Hazardous components (Regulation (EC) No. 1272/2008)

Chemical name	Content		
CAS-No.	EC-No.	EC-Index-No.	Labelling according to EC-Regulation
Sodium carbonate			20 – 30 %
497-19-8	207-838-8	011-005-00-2	Eye Irrit. 2, H319
REACH Registration Number: 01-2119485498-19			
Disodium carbonate, compound with hydrogen peroxide (2:3)			10 – < 25 %
15630-89-4	239-707-6		Ox. Sol. 3, H272 Acute Tox. 4, H302 Eye Dam. 1, H318
REACH Registration Number: 01-2119457268-30			
Silicid acid, sodiumsalt			1 – < 10 %
1344-09-8	215-687-4		Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315
REACH Registration Number: 01-2119448725-31			
Fatty alcohol alkoxyates			1 – 5 %
			Eye Irrit. 2, H319
Subtilisin			0.1 – < 1 %
9014-01-1	232-752-2	647-012-00-8	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
REACH Registration Number: 01-2119529223-47			

Full text of hazard statements: See under section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

After inhalation: Fresh air. Call in physician if feeling unwell.

After skin contact: Wash off with plenty of water. Remove contaminated clothing. Consult a physician if skin irritations occur.

After eye contact: Rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist.

After swallowing: Make victim drink plenty of water (two glasses at most), avoid vomiting. Call in physician.

4.2 Most important symptoms and effects, both acute and delayed

With long-term contact: Dermatitis.

When dust is generated: Cough, shortness of breath, irritant effects on respiratory tract.

Allergic reactions, asthmatic symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures**5.1 Extinguishing media***Suitable extinguishing media*

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance / mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Not Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters*Special protective equipment for firefighters*

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Further information

Prevent fire-fighting water from entering surface water or groundwater.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Do not inhale dusts. Avoid substance contact. Ensure supply of fresh air in enclosed rooms. Keep away from sources of ignition, no smoking.

6.2 Environmental precautions

Do not get undiluted into sewerage system.

6.3 Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Clean up affected area.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling***Notes for safe handling*

Ensure adequate ventilation. Avoid contact with skin and eyes. Do not inhale dusts. Avoid generation of dust.

Notes for prevention of fire and explosion

Not required.

7.2 Conditions for safe storage, including any incompatibilities

Store at room temperature. Protect from humidity. Keep away from sun and heat.

Tightly closed.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters***Subtilisin*

EH40 WEL

Name	Subtilisin
Time weighted average (TWA)	0.00004 mg/m ³

8.2 Exposure controls*Individual protection measures*

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye / face protection:

Safety goggles (EN 166) recommended.

Hand protection:

Material: Nitrile rubber.

Thickness: 0.1 mm

Breakthrough time: > 480 min

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN 374, e.g. Franz Mensch Nitrile Safe Premium.

This recommendation applies only to the product stated in the safety data sheet supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.

Respiratory protection:

Required when dust is generated. Filter P2 (EN 14387).

Hygiene measures

Change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	solid
Colour:	white and green
Odour:	characteristic
pH value (1 %)	10 – 11
Melting point	not specified
Boiling point	not specified
Ignition temperature	not applicable
Flash point	not applicable
Explosion limits	lower upper
Density (20 °C)	not specified
Solubility in water	soluble

9.2 Other information

None.

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

Protect from humidity.

10.5 Incompatible materials

Bases, acids.

10.6 Hazardous decomposition products

See section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

LD₅₀ rat: 2800 mg/kg (ECHA; Sodium carbonate)

Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

LD₅₀ rat: 1034 mg/kg (external MSDS; Disodium carbonate, compound with hydrogen peroxide)

LD₅₀ rat: > 2000 mg/kg (external MSDS; Silicid acid, sodiumsalt)

LD₅₀ rat: 1800 mg/kg (OECD 401; Subtilisin)

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LD₅₀ rat: > 2000 mg/kg (OECD 423; Fatty alcohol alkoxyates)

Acute dermal toxicity

LD₅₀ rat: > 2000 mg/kg (US-EPA; Sodium carbonate)

Symptoms: Possible damages: Mucosal irritations.

LD₅₀ rat: > 2000 mg/kg (OECD 402; Disodium carbonate, compound with hydrogen peroxide)

LD₅₀ rat: > 5000 mg/kg (external MSDS; Silicid acid, sodiumsalt)

Acute inhalation toxicity

LC₅₀ rat: > 2060 mg/kg (external MSDS; Silicid acid, sodiumsalt)

Skin irritation

Rabbit: No irritation (OECD 404; Sodium carbonate).

Rabbit: No irritation (external MSDS; Disodium carbonate, compound with hydrogen peroxide).

Rabbit: Causes skin irritation (external MSDS; Silicid acid, sodiumsalt).

Rabbit: No irritation (external MSDS; Fatty alcohol alkoxyates).

Eye irritation

Rabbit: Eye irritation (US-EPA; Sodium carbonate).

Causes serious eye irritation.

Rabbit: Corrosive (OECD 402; Disodium carbonate, compound with hydrogen peroxide).

Causes serious eye damage.

Eye irritation (external MSDS; Silicid acid, sodiumsalt).

Rabbit: Causes serious eye damage (OECD 405; Fatty alcohol alkoxyates).

Sensitisation

Guinea pig: Negative (OECD 406; Disodium carbonate, compound with hydrogen peroxide).

Genotoxicity in vitro

Ames test: Escherichia coli: Negative (external MSDS; Sodium carbonate).

Specific target organ toxicity – single exposure

May cause respiratory irritation (external MSDS; Sodium carbonate).

Specific target organ toxicity – repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

NOAEL rat: > 159 mg/kg bw /d (external MSDS; Silicid acid, sodiumsalt)

Aspiration hazard

No aspiration toxicity classification.

11.2 Further information

Further hazardous properties cannot be excluded. The product should be handled with the care usual when dealing with chemicals.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

Lepomis macrochirus LC₅₀: 300 mg/l /96 h (ECHA; Sodium carbonate)

Pimephales promelas LC₅₀: 70.7 mg/l /96 h (external MSDS; Disodium carbonate, compound with hydrogen peroxide)

Brachydanio rerio LC₅₀: > 100 mg/l /96 h (OECD 203; Silicid acid, sodiumsalt)

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Oncorhynchus mykiss LC₅₀: 8.2 mg/l /96 h (OECD 203; Subtilisin)

Toxicity to daphnia and other aquatic invertebrates

Ceriodaphnia dubia: EC₅₀: 220 – 227 mg/l /48 h (US-EPA; Sodium carbonate)

Daphnia magna: EC₅₀: > 100 mg/l /48 h (external MSDS; Silicid acid, sodiumsalt)

Daphnia magna: EC₀: 0.17 mg/l /48 h (external MSDS; Subtilisin)

Toxicity to algae

Scenedesmus subspicatus: EC₅₀: > 100 mg/l /72 h (OECD 201; Fatty alcohol alkoxyates)

Pseudokirchneriella subcapitata: ErC₅₀: 290 mg/l /72 h (OECD 201; Subtilisin)

12.2 Persistence and degradability

Biodegradability

The surfactants contained in this preparation complies 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.

Biodegradation: > 60 % / 28 d (OECD 301B; Fatty alcohol alkoxyates)

Readily biodegradable (Fatty alcohol alkoxyates)

Readily biodegradable (Subtilisin)

12.3 Bioaccumulative potential

No bioaccumulation is to be expected (Disodium carbonate, compound with hydrogen peroxide).

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT / vPvB assessment not available as chemical safety assessment not required / not conducted.

12.6 Other adverse effects

Do not allow to enter waters, waste water, or soil!

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product:

Chemicals must be disposed of in compliance with the respective national regulations.

Code of the waste

200129*

070601*

Name according to directive 2000/532/EC:

detergents containing dangerous substances.

aqueous washing liquids and mother liquors.

Packaging:

Product packaging must be disposed of in compliance with the country-specific regulations or must be to a packaging return system.

Code of the waste

200139

Name according to directive 2000/532/EC:

plastics.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

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

EU regulations

Ingredients according to Regulation (EC) on detergents No. 648/2004:

Oxygen-based bleaching agents: 5 % or over but less than 15 %

Polycarboxylates: Less than 5 %

Non-ionic surfactants: Less than 5 %

Phosphonates: Less than 5 %

Enzymes (Protease, Amylase)

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Full text of hazard statements referred to under sections 2 and 3:

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.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.