

SAFETY DATA SHEET of:

Citrus Enzymatic Drain Cleaning Sticks – EZ4C

Revision date: Wednesday, December 16, 2020

S96.49

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

1.1 Product identifier:

Citrus Enzymatic Drain Cleaning Sticks – EZ4C

UFI: /

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

Biological sticks for pipes

Concentration in use: 100%

1.3 Details of the supplier of the safety data sheet:

Ecozone

Barley Mow Centre

10 Barley Mow Passage

Chiswick

London

W4 4PH

Phone: 0345 230 4200

Email: trade@ecozone.com

1.4 Emergency telephone number:

0345 230 4200

2 SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:

Classification of the substance or mixture in accordance with regulation (EU) 1272/2008:

EUH208

2.2 Label elements:

Pictograms:

Signal word:

None

Hazard statements:

EUH208: Contains (amylase; subtilisin). May produce an allergic reaction.

Precautionary statements:

None

Contains:

None

2.3 Other hazards:

None

3 SECTION 3: Composition/information on ingredients:

| | | | |
|------------------------|---------|----------------------------|--|
| Sodium lauryl sulphate | ≤ 2 % | CAS number: | 85586-07-8 |
| | | EINECS: | 287-809-4 |
| | | REACH Registration number: | 01-2119489463-28 |
| | | CLP Classification: | H302 Acute tox. 4 H315 Skin Irrit. 2 H318 Eye Dam. 1 H412 Aquatic Chronic 3 |
| amylase | ≤ 0.5 % | CAS number: | 9000-90-2 |
| | | EINECS: | 232-565-6 |
| | | REACH Registration number: | 01-2119938627-26 |
| | | CLP Classification: | H334 Resp. Sens. 1 |
| subtilisin | ≤ 0.5 % | CAS number: | 9014-01-1 |
| | | EINECS: | 232-752-2 |
| | | REACH Registration number: | 01-2119480434-38 |
| | | CLP Classification: | H302 Acute tox. 4 H315 Skin Irrit. 2 H318 Eye Dam. 1 H334 Resp. Sens. 1 H335 STOT SE 3 H400 Aquatic Acute 1 |

For the full text of the H phrases mentioned in this section, see section 16.

4 SECTION 4: First aid measures:

4.1 Description of first aid measures:

Always ask medical advice as soon as possible should serious or continuous disturbances occur.

Skin contact: Rinse with water.

Eye contact: Rinse first with plenty of water, if necessary seek medical attention.

Ingestion: Rinse first with plenty of water, if necessary seek medical attention.

Inhalation: In case of serious or continuous discomforts: remove to fresh air and seek medical attention.

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

Skin contact: None

Eye contact: Redness

Ingestion: Diarrhoea, headache, abdominal cramps, sleepiness, vomiting

Inhalation: None

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

None

5 SECTION 5: Fire-fighting measures:

5.1 Extinguishing media:

CO₂, foam, powder, sprayed water

5.2 Special hazards arising from the substance or mixture:

None

5.3 Advice for firefighters:

Extinguishing agents to be None **avoided:**

6 SECTION 6: Accidental release measures:

6.1 Personal precautions, protective equipment and emergency procedures:

Do not walk into or touch spilled substances and avoid inhalation of fumes, smoke, dusts and vapours by staying up wind. Remove any contaminated clothing and used contaminated protective equipment and dispose of it safely.

6.2 Environmental precautions:

Do not allow to flow into sewers or open water.

6.3 Methods and material for containment and cleaning up:

Contain released substance, store into suitable containers. If possible, remove by using absorbent material.

6.4 Reference to other sections:

For further information, check sections 8 & 13.

7 SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

Handle with care to avoid spillage.

7.2 Conditions for safe storage, including any incompatibilities:

Keep in a sealed container in a closed, frost-free, ventilated room.

7.3 Specific end use(s):

Biological sticks for pipes

8 SECTION 8: Exposure controls/personal protection:




8.1 Control parameters:

Listing of the hazardous ingredients in section 3, of which the TLV value is known

/

8.2 Exposure controls:

| | | |
|-------------------------------|--|--|
| Inhalation protection: | Respiratory protection is not required. Use ABEK type gas masks in case of irritating exposure. If necessary, use with sufficient exhaust ventilation. | |
|-------------------------------|--|--|

| | | |
|--------------------------|--|---|
| Skin protection: | Handling with nitril-gloves (EN 374). Breakthrough time: >480' Material thickness: 0,35 mm. Thoroughly check gloves before use. Take of the gloves properly without touching the outside with your bare hands. The manufacturer of the protective gloves has to be consulted about the suitability for a specific work station. Wash and dry your hands. |  |
| Eye protection: | Keep an eye-rinse bottle within reach. Tight-fitting safety goggles. Wear a face shield and protective suit in case of exceptional processing problems. |  |
| Other protection: | Wear impermeable clothing. The type of protective equipment depends on the concentration and amount of hazardous substances at the work station in question. |  |

9 SECTION 9: Physical and chemical properties:

9.1 Information on basic physical and chemical properties:

| | |
|--|----------------|
| Melting point/melting range: | / |
| Boiling point/Boiling range: | / |
| pH: | / |
| pH 1% diluted in water: | / |
| Vapour pressure/20°C,: | / |
| Vapour density: | Not applicable |
| Relative density, 20°C: | / |
| Appearance/20°C: | Solid |
| Flash point: | / |
| Flammability (solid, gas): | Not applicable |
| Auto-ignition temperature: | / |
| Upper flammability or explosive limit, (Vol %): | / |
| Lower flammability or explosive limit, (Vol %): | / |
| Explosive properties: | Not applicable |
| Oxidising properties: | Not applicable |
| Decomposition temperature: | / |
| Solubility in water: | Not soluble |
| Partition coefficient: noctanol/water: | Not applicable |
| Odour: | characteristic |
| Odour threshold: | Not applicable |
| Dynamic viscosity, 20°C: | / |
| Kinematic viscosity, 40°C: | / |
| Evaporation rate (n-BuAc = 1): | / |

9.2 Other information:

Volatile organic component (VOC): /

Volatile organic component (VOC): /

Sustained combustion test : /

10 SECTION 10: Stability and reactivity:

10.1 Reactivity: Stable under

normal conditions.

10.2 Chemical stability:

Extremely high or low temperatures.

10.3 Possibility of hazardous reactions:

None

10.4 Conditions to avoid:

Protect from sunlight and do not expose to temperatures exceeding + 50°C.

10.5 Incompatible materials:

None

10.6 Hazardous decomposition products:

Under recommended usage conditions, hazardous decomposition products are not expected.

11 SECTION 11: Toxicological information:

11.1 Information on toxicological effects:

About the preparation itself: No additional data available

Calculated acute toxicity, ATE oral: /

Calculated acute toxicity, ATE / dermal:

| | |
|------------------------|---|
| Sodium lauryl sulphate | LD50 oral, rat: 1 800 mg/kg LD50 dermal, rabbit: ≥ 5 000 mg/kg LC50, Inhalation, rat, 4h: ≥ 50 mg/l |
| amylase | LD50 oral, rat: ≥ 5 000 mg/kg LD50 dermal, rabbit: ≥ 5 000 mg/kg LC50, Inhalation, rat, 4h: ≥ 50 mg/l |
| subtilisin | LD50 oral, rat: 1 800 mg/kg LD50 dermal, rabbit: ≥ 5 000 mg/kg LC50, Inhalation, rat, 4h: ≥ 50 mg/l |

12 SECTION 12: Ecological information:

12.1 Toxicity:

| | | |
|------------------------|-----------------------------|--|
| Sodium lauryl sulphate | LC50 (Fish): | 1.3 mg/L (96h) |
| | EC50 (Daphnia): | 2.8 mg/L (48h) |
| | EC50 (Algae): | 20 mg/L (72h) |
| | NOEC (Algae): | 3 mg/L (72h) |
| | EC50 (soil microorganisms): | 680 mg/L (3h) |
| amylase | LC50 (Fish): | >100 mg/l (96h) |
| | EC50 (Daphnia): | >100 mg/l (48h) |
| | EC50 (Algae): | >100 mg/l (72h) |
| subtilisin | LC50 (Fish): | 8,2 mg/l, 96h (Oncorhynchus mykiss) |
| | EC50 (Daphnia): | EC0 = 0,17 mg/l |
| | NOEC (Algae): | 0,041 mg (72h) (Pseudokirchneriella subcapitata) |

12.2 Persistence and degradability:

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

12.3 Bioaccumulative potential:

No additional data available

12.4 Mobility in soil:

Water hazard class, WGK (AwSV): 1

Solubility in water: Not soluble

12.5 Results of PBT and vPvB assessment:

No additional data available

12.6 Other adverse effects:

No additional data available

13 SECTION 13: Disposal considerations:

13.1 Waste treatment methods:

The product may be discharged in the indicated percentages of utilization, provided it is neutralised to pH 7. Possible restrictive regulations by local authority should always be adhered to.

14 SECTION 14: Transport information:

14.1 UN number:

Not applicable

14.2 UN proper shipping name:

ADR, IMDG, ICAO/IATA not applicable

14.3 Transport hazard class(es):

Class(es): Not applicable
Identification number of the hazard: Not applicable

14.4 Packing group:

Not applicable

14.5 Environmental hazards:

Not dangerous to the environment

14.6 Special precautions for user:

Hazard characteristics: Not applicable
Additional guidance: Not applicable

15 SECTION 15: Regulatory information:

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

Water hazard class, WGK (AwSV): 1

Volatile organic component (VOC): /

Volatile organic component (VOC): /

Composition by regulation (EC 648/2004): Anionic surfactants < 5%, Enzymes < 5%, Perfumes (Geraniol, Limonene, Butylphenyl Methylpropional)

15.2 Chemical Safety Assessment:

No data available

16 SECTION 16: Other information:

Legend to abbreviations used in the safety data sheet:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE: Acute Toxicity Estimate
BCF: Bioconcentration factor
CAS: Chemical Abstracts Service
CLP: Classification, Labelling and Packaging of chemicals
EINECS: European INventory of Existing commercial Chemical Substances
LC50: median Lethal Concentration for 50% of subjects
LD50: median Lethal Dose for 50% of subjects
Nr.: Number
PTB: Persistent, Toxic, Bioaccumulative
TLV: Threshold Limit Value
UFI: Unique Formula Identifier
vPvB: very Persistent and very Bioaccumulative substances
WGK: Water hazard class
WGK 1: Slightly hazardous for water
WGK 2: Hazardous for water
WGK 3: Extremely hazardous for water

Legend to the H Phrases used in the safety data sheet:

EUH208: Contains (amylase; subtilisin). May produce an allergic reaction. **H302 Acute tox. 4:** Harmful if swallowed. **H315 Skin Irrit. 2:** Causes skin irritation. **H318 Eye Dam. 1:** Causes serious eye damage.
H334 Resp. Sens. 1: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 STOT SE 3: May cause respiratory irritation. **H400 Aquatic Acute 1:** Very toxic to aquatic life.
H412 Aquatic Chronic 3: Harmful to aquatic life with long lasting effects.

CLP Calculation method:

Calculation method

Reason of revision, changes of following items:

Section: 15.1

SDS reference number: ECM-

110946,01

This safety information sheet has been compiled in accordance with annex II/A of the regulation (EU) No 2015/830. Classification has been calculated in accordance with European regulation 1272/2008 with their respective amendments. It has been compiled with the utmost care. We cannot, however, accept responsibility for damage, of any kind, that may be caused by using these data or the product concerned. To use this preparation for an experiment or a new application , the user must carry out a material suitability and safety study himself.