



according to Regulation (EC) No 1907/2006

Citrolase TF Clear

Revision date: 01.12.2023

Product code: 2236x

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

1.1. Product identifier

Citrolase TF Clear

UFI:

VEPW-VA0A-F56V-UFVF

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

Use of the substance/mixture

Liquid enzyme formulation

1.3. Details of the supplier of the safety data sheet

| Company name: | Erbslöh Geisenheim GmbH | |
|-----------------|-------------------------|-----------------------|
| | Kundenservice | |
| Street: | Erbslöhstr. 1 | |
| Place: | D-65366 Geisenheim | |
| Telephone: | 06722/708-0 | Telefax: 06722/6098 |
| e-mail: | info@erbsloeh.com | |
| Contact person: | Qualitätssicherung | Telephone:06722/708-0 |
| e-mail: | info@erbsloeh.com | |
| Internet: | www.erbsloeh.com | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Resp. Sens. 1; H334

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

Polygalacturonase Pectinase

Signal word:

Pictograms:



Danger

Hazard statements

H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements

| oudlionaly olucomon | |
|---------------------|--|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P284 | Wear respiratory protection. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P342+P311 | If experiencing respiratory symptoms: Call a POISON CENTER/doctor. |
| | |

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



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Hazardous components

| CAS No | Chemical name | | Quantity | |
|-----------|------------------------------------|------------|----------|-------------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No | 1272/2008) | | |
| 9032-75-1 | Polygalacturonase | | | 10 - < 15 % |
| | 232-885-6 | | | |
| | Resp. Sens. 1; H334 | | | |
| 9032-75-1 | Pectinase | | | 1 - < 5 % |
| | 232-885-6 | | | |
| | Resp. Sens. 1; H334 | | | |

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary.

After contact with skin

Wash with plenty of water. Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures



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General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage

No special measures are necessary.

7.3. Specific end use(s)

Enzymformulierung für die Getränkebehandlung

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls





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Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face 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 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.

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state: | Liquid | |
|----------------------------------|---------------------------|----------------|
| Colour: | brown | |
| Odour: | Typical | |
| Melting point/freezing point | : | not determined |
| Boiling point or initial boiling | g point and | not determined |
| boiling range: | | |
| Flammability: | | not determined |
| Lower explosion limits: | | not determined |
| Upper explosion limits: | | not determined |
| Flash point: | | not determined |
| Auto-ignition temperature: | | not determined |
| Decomposition temperature | e: | not determined |
| pH-Value (at 20 °C): | | 4,8 |
| Water solubility: | | easily soluble |
| Solubility in other solvents | | |
| not determined | | |
| Partition coefficient n-octar | nol/water: | not determined |
| Vapour pressure: | | not determined |
| Density (at 20 °C): | | 1,1 g/cm³ |
| Relative vapour density: | | not determined |
| 9.2. Other information | | |
| Information with regard to | o physical hazard classes | |
| Explosive properties | | |
| The product is not: Exp | losive. | |
| Oxidizing properties | | |
| The product is not: oxic | lising. | |
| Other safety characteristi | cs | |
| Evaporation rate: | | not determined |
| | | |

not determined

SECTION 10: Stability and reactivity

Solid content:



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10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

11.2. Information on other hazards

Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

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. The product has not been tested.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.



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SECTION 14: Transport information

Land transport (ADR/RID)

| 14.1. UN number or ID number: |
|-----------------------------------|
| 14.2. UN proper shipping name: |
| 14.3. Transport hazard class(es): |
| 14.4. Packing group: |

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

| EU regulatory information | |
|--|--|
| Restrictions on use (REACH, annex XVII) | : |
| Entry 3 | |
| Information according to 2012/18/EU (SEVESO III): | Not subject to 2012/18/EU (SEVESO III) |
| National regulatory information | |
| Employment restrictions: | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). |
| Water hazard class (D): | 1 - slightly hazardous to water |
| 15.2 Chamical asfaty assassment | |

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

| CLP: Classification, labelling and Packaging |
|---|
| REACH: Registration, Evaluation and Authorization of Chemicals |
| GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals |
| UN: United Nations |
| CAS: Chemical Abstracts Service |
| DNEL: Derived No Effect Level |
| DMEL: Derived Minimal Effect Level |
| PNEC: Predicted No Effect Concentration |
| ATE: Acute toxicity estimate |
| LC50: Lethal concentration, 50% |
| LD50: Lethal dose, 50% |
| LL50: Lethal loading, 50% |
| EL50: Effect loading, 50% |
| EC50: Effective Concentration 50% |
| ErC50: Effective Concentration 50%, growth rate |
| NOEC: No Observed Effect Concentration |
| BCF: Bio-concentration factor |
| PBT: persistent, bioaccumulative, toxic |
| vPvB: very persistent, very bioaccumulative |
| ADR: Accord européen sur le transport des marchandises dangereuses par Route |
| (European Agreement concerning the International Carriage of Dangerous Goods by Road) |
| RID: Regulations concerning the international carriage of dangerous goods by rail |
| MARPOL: International Convention for the Prevention of Marine Pollution from Ships |



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IBC: Intermediate Bulk Container

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety

assessment, chapter R.20 (Table of terms and abbreviations).

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

| | fication procedure |
|-----------------------------|--------------------|
| Resp. Sens. 1; H334 Calcula | ation method |

Relevant H and EUH statements (number and full text)

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)