

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

### 1.1. Product identifier

|                               |                            |
|-------------------------------|----------------------------|
| Product form                  | : Mixture                  |
| Trade name                    | : EXTRALYSE®               |
| UFI                           | : 5M8Y-G8R6-K10H-YW9V      |
| Type of product               | : For œnological use       |
| Product group                 | : Trade product            |
| Other means of identification | : E330 - E331 (iii) - E508 |

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

#### 1.2.1. Relevant identified uses

|                                  |  |
|----------------------------------|--|
| Main use category                | : Professional use   |
| Industrial/Professional use spec | : For professional users only  |
| Use of the substance/mixture     | : Preparation of beta-glucanases and pectinases purified in CE for the improvement of wine filterability and ageing on lees. |
| Use of the substance/mixture     | : For œnological use   |

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

LAFFORT FRANCE SAS  
P.O. Box CS 61611  
33072 BORDEAUX CEDEX  
FRANCE  
T +33 (0)5 56 86 53 04 - F +33 (0)5 56 86 30 50  
[info@laffort.com](mailto:info@laffort.com) - [www.laffort.com](http://www.laffort.com)

#### Distributor

LAFFORT AUSTRALIA  
10 KALIMNA RD NURIOOTPA, 5355  
SOUTH AUSTRALIA  
AUSTRALIA  
T (08) 8360 2200  
[info@laffort.com](mailto:info@laffort.com) - [www.laffort.com](http://www.laffort.com)

#### Supplier

LAFFORT ESPAÑA S.A.  
TXIRRITA MALEO 12 APTDO 246  
20100 RENTERIA (Guipúzcoa)  
ESPAÑA  
T 0034943344068 - F 0034943344281  
[info@laffort.com](mailto:info@laffort.com) - [www.laffort.com](http://www.laffort.com)

#### Distributor

LAFFORT NEW ZEALAND  
4/B GREENWOODS CLOSE TITIRANGI  
P.O. Box P.O. BOX 60-249  
1000 AUCKLAND  
NEW ZEALAND  
T 64 (0) 21 322 290  
[info@laffort.com](mailto:info@laffort.com) - [www.laffort.com](http://www.laffort.com)

#### Distributor

LAFFORT USA  
1460 CADER LANE SUITE C

#### Distributor

LAFFORT ARGENTINA  
PREDIO INDUSTRIAL, CALLE CASTRO BARROS 1330 CARRODILLA  
AR- LUJAN DE CUYO - MENDOZA  
ARGENTINA  
T + 54 261 4962309 - F + 54 261 4964060  
[info@laffort.com](mailto:info@laffort.com) - [www.laffort.com](http://www.laffort.com)

#### Distributor

LAFFORT CHILE  
PARCELA 233, LOTE 2, COLONIA KENNEDY, SECTOR HOSPITAL  
9540000 PAINE  
CHILE  
T +56 22 979 1590 - F +56 9 5201 7140  
[info@laffort.com](mailto:info@laffort.com) - [www.laffort.com](http://www.laffort.com)

#### Distributor

LAFFORT ITALIA  
S.P. PER CASTELNUOVO SCRIVIA S.N.C.  
15057 TORTONA AL  
T +39 0131 863 608 - F +39 0131 821 305  
[laffortitalia@laffort.com](mailto:laffortitalia@laffort.com) - [www.laffort.com](http://www.laffort.com)

#### Distributor

LAFFORT SOUTH AFRICA  
32 ZANDWYK PARK  
7646 PAARL  
SOUTH AFRICA  
T +27 21 882 8106  
[info@laffort.com](mailto:info@laffort.com) - [www.laffort.com](http://www.laffort.com)

# EXTRALYSE®

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

CA 94954 PETALUMA

USA

T +1 (707) 775 4530

[laffortusa@laffort.com](mailto:laffortusa@laffort.com) - [www.laffortusa.com](http://www.laffortusa.com)

### 1.4. Emergency telephone number

| Country        | Organisation/Company   | Address   | Emergency number                     | Comment  |
|----------------|--|---|--------------------------------------|--|
| Australia      | NSW Poisons Information Centre<br>The Children's Hospital at Westmead                    | Locked Bag 4001<br>NSW 2145   | 13 11 26                             |  |
| Canada         | Ontario Poison Centre (OPC)  | The Hospital for Sick Children<br>555 University Avenue<br>ON M5G 1X8 Toronto                       | 1-800-268-9017<br>(416) 813-5900     |  |
| Canada         | BC Drug and Poison Information Centre (DPIC)   | 655 West 12th Avenue<br>BC V5Z 4R4 Vancouver  | 1-800-567-8911<br>(604) 682-5050     |  |
| China          | National Poison Control Center   | Chinese Center for Disease<br>Control and Prevention<br>Nanwei road, No.29<br>100050 Beijing        | +86 10 831 32 046                    |  |
| Croatia        | Centar za kontrolu otrovanja<br>Institut za medicinska istraživanja i medicinu<br>rada   | Ksaverska Cesta 2<br>p.p. 291<br>10000 Zagreb   | +385 1 234 8342                      | Information available<br>24/7 in Croatian and<br>English |
| Czech Republic | Toxikologické informační středisko<br>Klinika pracovního lékařství VFN a 1. LF UK        | Na Bojišti 1<br>120 00 Praha 2  | +420 224 919 293<br>+420 224 915 402 |  |
| Denmark        | Gifftlinjen  | Bispebjerg Bakke 23<br>Opgang 20 C<br>2400 København NV   | +45 82 12 12 12                      |  |
| Georgia        | National Toxicology Information Advisory<br>Center                                       | Tbilisi State Medical University<br>Department of Toxicology - 7<br>Asatiani St.<br>380 077 Tbilisi | +995 99 533320                       |  |
| Greece         | Poisons Information Centre<br>Children's Hospital P&A Kyriakou                           | 11762 Athens  | +30 2 10 779 3777                    |  |
| Hungary        | Országos Kémiai Biztonsági Intézet<br>Egészségügyi Toxikológiai Tájékoztató<br>Szolgálat | Nagyvárad tér 2.<br>1437 Budapest, Pf. 839<br>1097 Budapest   | +36 80 20 11 99                      |  |
| Israel         | Israel Poison Information Center<br>Rambam Health Care Campus                            | 6 Ha'Aliya Street<br>31096  | +972 4 854 1900                      |  |
| Japan          | Japan Poison Information Center  | Tsukuba Medical Center<br>1-1-1 Amakubo<br>305-0005 Tsukuba City, Ibaraki                           | +81-29-856-3566<br>+81-72-727-2499   |  |
| Jordan         | National Drug & Poison Information Center of<br>Jordan                                   |   | 0798506755<br>00962-6-5353444        |  |
| Kazakhstan     | Republican Toxicology Center   | Tole-bi 93<br>480083 Almaty   | +7 3272 925 868                      |  |
| Malta          | Medicines & Poisons Info Office  | Mater Dei Hospital<br>MSD Msida   | +356 2545 6504                       |  |

# EXTRALYSE®

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Country        | Organisation/Company   | Address   | Emergency number                       | Comment  |
|----------------|--|---|--|--|
| New Zealand    | National Poisons Centre  | Dunedin School of Medicine,<br>University of Otago<br>PO Box 913<br>9054 Dunedin  | 0800 764 766<br>+56 2 2 247 3600       |  |
| Poland         | National Poisons Information Centre<br>The Nofer Institute of Occupational Medicine<br>(Łódź)                          | ul. Teresy 8<br>P.O. BOX 199<br>90950 Łódź  | +48 42 63 14 724                       |  |
| Romania        | Department of Clinical Toxicology<br>Spitalul de Urgenta Floreasca   | Calea Floreasca<br>Bucuresti  | +40 21 230 8000                        |  |
| Russia         | Информационно-консультативный центр<br>по токсикологии (RTIAC)<br>Министерство здравоохранения<br>Российской Федерации | 3 Сухаревская Площадь<br>Блок 7<br>129090 г. Москва   | +7 495 628 1687 (только на<br>русском) |  |
| Serbia         | Nacionalni centar za kontrolu trovanja - VMA   | Crnotravska 17<br>11000 Beograd   | +381 11 360 84 40                      |  |
| Slovenia       | Center za klinično toksikologijo in<br>farmakologijo<br>Interna klinika, UKCL  | Zaloška 7<br>1000 Ljubljana   | +386 522 52 83                         |  |
| South Africa   | Tygerberg Poison Information Centre  | Division of Clinical Pharmacology<br>Faculty of Medicine and Health<br>Sciences<br>Stellenbosch University - PO Box<br>241<br>8 000 Cape Town | 0861 555 777<br>+56 2 2 247 3600       |  |
| Sweden         | Giftinformationscentralen  | Solna Strandväg 21<br>171 54 Solna  | 112 – begär Giftinformation            |  |
| Turkey         | Ulusal Zehir Merkezi (UZEM)<br>Refik Saydam Hıfzısıhha Merkezi Başkanlığı  | Cemal Gürsel Cd. No: 18 Sıhhiye<br>Çankaya<br>06590 Ankara  | 114                                    | Information is provided<br>to public and medical<br>personnel on poisoning<br>incidents via 114. |
| United Kingdom | National Poisons Information Service (Belfast<br>Centre)<br>Royal Victoria Hospital                                    | Grosvenor Road<br>BT12 6BA  | 0344 892 0111                          | Only for healthcare<br>professionals   |
| United Kingdom | National Poisons Information Service<br>(Birmingham Centre)<br>City Hospital   | Dudley Road<br>B18 7QH  | 0344 892 0111                          | Only for healthcare<br>professionals   |
| United Kingdom | National Poisons Information Service (Cardiff<br>Centre)<br>University Hospital Llandough                              | Penlan Road<br>CF64 2XX   | 0344 892 0111                          | Only for healthcare<br>professionals   |
| United Kingdom | National Poisons Information Service<br>(Edinburgh Centre)<br>Royal Infirmary of Edinburgh                             | Little France Crescent<br>EH16 4SA  | 0344 892 0111                          | Only for healthcare<br>professionals   |
| United Kingdom | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit, Guy's & St Thomas'<br>Hospital Trust                       | Avonley Road<br>SE14 5ER  | +44 20 7188 7188                       |  |
| United Kingdom | National Poisons Information Service<br>(Newcastle Centre)<br>Regional Drugs and Therapeutics Centre                   | 16/17 Framlington Place<br>Newcastle-upon-Tyne<br>NE2 4AB   | 0344 892 0111                          | Only for healthcare<br>professionals   |

# EXTRALYSE®

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Country                  | Organisation/Company                           | Address  | Emergency number                   | Comment |
|--------------------------|--|--|------------------------------------|---------|
| United States of America | American Association of Poison Control Centers | 515 King St., Suite 510<br>VA 22314 Alexandria | 1-800-222-1222<br>+56 2 2 247 3600 |         |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Respiratory sensitisation, Category 1

H334

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

#### Adverse physicochemical, human health and environmental effects

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

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS08

Signal word (CLP)

: Danger

Contains

: Polygalacturonase enzyme; Beta-glucanase enzyme

Hazard statements (CLP)

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

Precautionary statements (CLP)

: P261 - Avoid breathing dust, fume, gas, mist, vapours, spray.  
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.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
P284 - In case of inadequate ventilation wear respiratory protection.

### 2.3. Other hazards

Other hazards which do not result in classification : May cause sensitization by inhalation and skin contact. mild eye irritation. mild skin irritation.

Contains no PBT/vPvB substances  $\geq$  0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                     | Product identifier  | %     | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------------------|---|-------|---|
| Polygalacturonase enzyme | CAS-No.: 9032-75-1<br>EC-No.: 232-885-6<br>EC Index-No.: IUB n°3.2.1.15 | 1 – 5 | Resp. Sens. 1, H334   |

# EXTRALYSE®

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Name                  | Product identifier                      | %     | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-----------------------|---|-------|---|
| Beta-glucanase enzyme | CAS-No.: 9074-98-0<br>EC-No.: 232-979-7 | 1 – 5 | 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

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : If symptoms persist call a doctor. Sensitisation : contact can cause allergic reactions in humans. Call a poison center or a doctor if you feel unwell.  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician. If experiencing respiratory symptoms: Call a poison center or a doctor.  |
| First-aid measures after skin contact | : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If symptoms persist, call a physician. Wash skin with plenty of water.  |
| First-aid measures after eye contact  | : In case of eye contact, immediately rinse with clean water for 10-15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Rinse eyes with water as a precaution. |
| First-aid measures after ingestion    | : If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Immediately give plenty of water. Never give anything by mouth to an unconscious person. Call a poison center or a doctor if you feel unwell.      |

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

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects                    | : More detailed information: See section 11.  |
| Symptoms/effects after inhalation   | : May cause allergy or asthma symptoms or breathing difficulties if inhaled. Cough, difficult breathing or other symptoms of poisoning may occur within some hours. |
| Symptoms/effects after skin contact | : Slight irritation.  |
| Symptoms/effects after eye contact  | : mild eye irritation.  |
| Symptoms/effects after ingestion    | : May cause irritation to the digestive tract.  |

#### 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   | : If there is a fire close by, use suitable extinguishing agents. carbon dioxide (CO <sub>2</sub> ), powder, alcohol-resistant foam, water spray. Water spray. Dry powder. Foam. |
| Unsuitable extinguishing media | : Do not use water jet.  |

#### 5.2. Special hazards arising from the substance or mixture

|  |   |
|--|---|
| Fire hazard                                      | : In case of fire and/or explosion do not breathe fumes.  |
| Hazardous decomposition products in case of fire | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide. May cause allergy or asthma symptoms or breathing difficulties if inhaled. |

#### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.                              |

# EXTRALYSE®

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Other information : Do not contaminate ground and surface water. Dispose in a safe manner in accordance with local/national regulations.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not handle until all safety precautions have been read and understood. Evacuate personnel to a safe area. Ensure adequate air ventilation.

##### 6.1.1. For non-emergency personnel

Protective equipment : Wear personal protective equipment.  
Emergency procedures : Ventilate spillage area. Do not touch or walk on the spilled product. Avoid contact with skin and eyes. Avoid breathing dust, mist or spray. Avoid breathing dust/fume/gas/mist/vapours/spray.  
Measures in case of dust release : Avoid dust formation.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment. Do not flush into surface water or sewer system. Notify authorities if product enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Dust deposited may be vacuum cleaned or the area hosed down with water. Mechanically recover the product. Contain leaking substance, pump over in suitable containers. Clean contaminated surfaces with an excess of water.  
Other information : Dispose of materials or solid residues at an authorized site. Do not allow to enter drains or water courses.

#### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment. Avoid dust formation. Ensure good ventilation of the work station. Local exhaust is recommended where dust may occur. Avoid contact with skin and eyes. Wear recommended personal protective equipment. Store tightly closed in a dry and cool place. Avoid breathing dust/fume/gas/mist/vapours/spray.  
Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. If on skin, take off contaminated clothing. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep only in the original container.  
Storage conditions : Keep in a well-ventilated room. Store tightly closed in a dry and cool place. Keep out of direct sunlight. Keep container tightly closed to prevent moisture pick-up. Store in a well-ventilated place. Keep cool.  
Heat and ignition sources : Keep away from ignition sources (including static discharges).

#### 7.3. Specific end use(s)

For oenological use.

# EXTRALYSE®

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

No additional information available

##### 8.1.2. Recommended monitoring procedures

No additional information available

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

|                                       |  |
|---------------------------------------|--|
| EXTRALYSE®                            |  |
| DNEL/DMEL (Workers)                   |  |
| Long-term - local effects, inhalation | 0,00006 mg/m <sup>3</sup> Polygalacturonase enzyme + Beta-glucanase enzyme |

##### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

###### Appropriate engineering controls:

Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Avoid dust formation.

##### 8.2.2. Personal protection equipment

###### Personal protective equipment:

Refer to protective measures listed in Sections 7 and 8.

###### Personal protective equipment symbol(s):



##### 8.2.2.1. Eye and face protection

###### Eye protection:

Safety glasses with side shields. Safety glasses

| Eye protection |                      |                   |          |
|----------------|----------------------|-------------------|----------|
| Type           | Field of application | Characteristics   | Standard |
| Safety glasses | Dust                 | With side shields | EN 166   |

##### 8.2.2.2. Skin protection

###### Skin and body protection:

Wear suitable protective clothing

###### Hand protection:

In case of repeated or prolonged contact wear gloves. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear. Nitrile rubber gloves. Butyl rubber gloves. Latex gloves. ISO 374-1. Wash hands immediately after handling the product

# EXTRALYSE®

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Other skin protection

#### Materials for protective clothing:

Long sleeved protective clothing

### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Extra personal protection: P3 filter respirator for toxic particles. [In case of inadequate ventilation] wear respiratory protection.

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Do not allow into drains or water courses. Avoid release to the environment. May be discharged to wastewater treatment installation.

#### Other information:

Do not eat, drink or smoke during work. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                     |
|---|---------------------|
| Physical state                                  | : Solid             |
| Colour  | : Off-white. brown. |
| Appearance                                      | : Granulate.        |
| Odour   | : characteristic.   |
| Odour threshold                                 | : Not available     |
| Melting point                                   | : Not available     |
| Freezing point                                  | : Not applicable    |
| Boiling point                                   | : Not available     |
| Flammability                                    | : Non flammable.    |
| Explosive limits                                | : Not applicable    |
| Lower explosion limit                           | : Not applicable    |
| Upper explosion limit                           | : Not applicable    |
| Flash point                                     | : Not applicable    |
| Auto-ignition temperature                       | : Not applicable    |
| Decomposition temperature                       | : Not available     |
| pH  | : Not available     |
| pH solution                                     | : Not available     |
| Viscosity, kinematic                            | : Not applicable    |
| Solubility                                      | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available     |
| Vapour pressure                                 | : Not available     |
| Vapour pressure at 50°C                         | : Not available     |
| Density   | : Not available     |
| Relative density                                | : ≈ 0,65            |
| Relative vapour density at 20°C                 | : Not applicable    |
| Particle size                                   | : Not available     |
| Particle size distribution                      | : Not available     |
| Particle shape                                  | : Not available     |
| Particle aspect ratio                           | : Not available     |
| Particle aggregation state                      | : Not available     |
| Particle agglomeration state                    | : Not available     |
| Particle specific surface area                  | : Not available     |
| Particle dustiness                              | : Not available     |



# EXTRALYSE®

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Heat. flames or sparks. Moisture.

### 10.5. Incompatible materials

None to our knowledge.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. See Section 5.

## SECTION 11: Toxicological information

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

|                             |   |
|-----------------------------|---|
| Acute toxicity (oral)       | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal)     | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : Not classified (Based on available data, the classification criteria are not met) |

| Polygalacturonase enzyme (9032-75-1) |  |
|--------------------------------------|--|
| LD50 oral                            | > 2000 mg/kg bodyweight OECD TG 401, 420   |
| Beta-glucanase enzyme (9074-98-0)    |  |
| LD50 oral rat                        | > 1000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity) |
| LD50 oral                            | > 2000 mg/kg bodyweight OECD TG 401, 420   |

|                                   |   |
|-----------------------------------|---|
| Skin corrosion/irritation         | : Not irritating to skin (Based on available data, the classification criteria are not met) |
| Serious eye damage/irritation     | : Not irritating to eyes (Based on available data, the classification criteria are not met) |
| Respiratory or skin sensitisation | : May cause allergy or asthma symptoms or breathing difficulties if inhaled.                |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met)         |
| Carcinogenicity                   | : Not classified (Based on available data, the classification criteria are not met)         |
| Reproductive toxicity             | : Not classified (Based on available data, the classification criteria are not met)         |
| STOT-single exposure              | : Not classified (Based on available data, the classification criteria are not met)         |
| STOT-repeated exposure            | : Not classified (Based on available data, the classification criteria are not met)         |
| Aspiration hazard                 | : Not classified (Based on available data, the classification criteria are not met)         |

# EXTRALYSE®

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|                      |                |
|----------------------|----------------|
| <b>EXTRALYSE®</b>    |                |
| Viscosity, kinematic | Not applicable |

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

No additional information available

#### 11.2.2. Other information

Potential adverse human health effects and symptoms : Sensitisation : contact can cause allergic reactions in humans

## SECTION 12: Ecological information

### 12.1. Toxicity

|   |   |
|---|---|
| Ecology - general   | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified (Based on available data, the classification criteria are not met)                                     |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met)                                     |

|   |  |
|---|--|
| <b>Polygalacturonase enzyme (9032-75-1)</b> |  |
| LC50 - Fish [1]                             | 58,3 – 326,7 mg/l  |
| EC50 - Crustacea [1]                        | 31,7 – 457 mg/l  |
| ErC50 algae                                 | > 5,2 mg/l 72h   |
| <b>Beta-glucanase enzyme (9074-98-0)</b>    |  |
| LC50 - Fish [1]                             | > 120 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)  |
| EC50 - Crustacea [1]                        | > 100 mg/l Test organisms (species): Daphnia magna   |
| EC50 72h - Algae [1]                        | > 150 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| ErC50 algae                                 | > 5,2 mg/l 72h   |

### 12.2. Persistence and degradability

|   |                |
|---|----------------|
| <b>Polygalacturonase enzyme (9032-75-1)</b> |                |
| Persistence and degradability               | Biodegradable. |
| <b>Beta-glucanase enzyme (9074-98-0)</b>    |                |
| Persistence and degradability               | Biodegradable. |

### 12.3. Bioaccumulative potential

|   |                              |
|---|------------------------------|
| <b>Polygalacturonase enzyme (9032-75-1)</b>     |                              |
| Partition coefficient n-octanol/water (Log Pow) | < 0                          |
| Bioaccumulative potential                       | There is no bioaccumulation. |
| <b>Beta-glucanase enzyme (9074-98-0)</b>        |                              |
| Partition coefficient n-octanol/water (Log Pow) | < 0                          |
| Bioaccumulative potential                       | There is no bioaccumulation. |

# EXTRALYSE®

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

Other adverse effects : Do not allow to enter drains or water courses

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Sewage disposal recommendations : No known adverse effects on the functioning of water treatment plants under normal use conditions as recommended.  
Product/Packaging disposal recommendations : Empty remaining contents. Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

### 14.1. UN number or ID number

UN-No. (ADR) : Not regulated  
UN-No. (IMDG) : Not regulated  
UN-No. (IATA) : Not regulated  
UN-No. (ADN) : Not regulated  
UN-No. (RID) : Not regulated

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated  
Proper Shipping Name (IMDG) : Not regulated  
Proper Shipping Name (IATA) : Not regulated  
Proper Shipping Name (ADN) : Not regulated  
Proper Shipping Name (RID) : Not regulated

### 14.3. Transport hazard class(es)

**ADR**  
Transport hazard class(es) (ADR) : Not regulated

**IMDG**  
Transport hazard class(es) (IMDG) : Not regulated

**IATA**  
Transport hazard class(es) (IATA) : Not regulated

**ADN**  
Transport hazard class(es) (ADN) : Not regulated

# EXTRALYSE®

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### RID

Transport hazard class(es) (RID) : Not regulated

### 14.4. Packing group

Packing group (ADR) : Not regulated

Packing group (IMDG) : Not regulated

Packing group (IATA) : Not regulated

Packing group (ADN) : Not regulated

Packing group (RID) : Not regulated

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

### 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

#### 15.1.1. EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### 15.1.2. National regulations

##### Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : Polygalacturonase enzyme, Beta-glucanase enzyme are listed

SZW-lijst van mutagene stoffen : Polygalacturonase enzyme, Beta-glucanase enzyme are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

# EXTRALYSE®

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Denmark

Danish National Regulations

: Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

No chemical safety assessment has been carried out

## SECTION 16: Other information

| Indication of changes |                       |          |          |
|-----------------------|-----------------------|----------|----------|
| Section               | Changed item          | Change   | Comments |
| 1.1                   | UFI                   | Added    |          |
| 1.3                   | Manufacturer/Supplier | Modified |          |

| Abbreviations and acronyms: |   |
|-----------------------------|---|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE                         | Acute Toxicity Estimate   |
| BCF                         | Bioconcentration factor   |
| BLV                         | Biological limit value  |
| BOD                         | Biochemical oxygen demand (BOD)   |
| COD                         | Chemical oxygen demand (COD)  |
| DMEL                        | Derived Minimal Effect level  |
| DNEL                        | Derived-No Effect Level   |
| EC-No.                      | European Community number   |
| EC50                        | Median effective concentration  |
| EN                          | European Standard   |
| IARC                        | International Agency for Research on Cancer   |
| IATA                        | International Air Transport Association   |
| IMDG                        | International Maritime Dangerous Goods  |
| LC50                        | Median lethal concentration   |
| LD50                        | Median lethal dose  |
| LOAEL                       | Lowest Observed Adverse Effect Level  |
| NOAEC                       | No-Observed Adverse Effect Concentration  |
| NOAEL                       | No-Observed Adverse Effect Level  |
| NOEC                        | No-Observed Effect Concentration  |
| OECD                        | Organisation for Economic Co-operation and Development  |
| OEL                         | Occupational Exposure Limit   |
| PBT                         | Persistent Bioaccumulative Toxic  |
| PNEC                        | Predicted No-Effect Concentration   |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail                    |

# EXTRALYSE®

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| <b>Abbreviations and acronyms:</b> |  |
|------------------------------------|--|
| SDS                                | Safety Data Sheet                        |
| STP                                | Sewage treatment plant                   |
| ThOD                               | Theoretical oxygen demand (ThOD)         |
| TLM                                | Median Tolerance Limit                   |
| VOC                                | Volatile Organic Compounds               |
| CAS-No.                            | Chemical Abstract Service number         |
| N.O.S.                             | Not Otherwise Specified                  |
| vPvB                               | Very Persistent and Very Bioaccumulative |
| ED                                 | Endocrine disrupting properties          |

| <b>Full text of H- and EUH-statements:</b> |  |
|--|--|
| H334                                       | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Resp. Sens. 1                              | Respiratory sensitisation, Category 1                                      |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.