

# **Safety Data Sheet**

according to Regulation (EU) 2015/830

Issue date: 19/01/2018 Revision date: 18/12/2020 Supersedes version of: 05/12/2019 Version: 3.1

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

#### 1.1. Product identifier

Product form : Mixture

Trade name : LAFAZYM® CL

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 : Highly concentrated preparation of pectolytic enzymes, purified in CE, for rapid clarification of white and rosé

must as well as red press wines.

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 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 - 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 - 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 - www.laffort.com

#### Distributor

LAFFORT SOUTH AFRICA 32 ZANDWYK PARK 7646 PAARL - SOUTH AFRICA

T+27 21 882 8106

info@laffort.com - www.laffort.com

#### Distributor

LAFFORT AUSTRALIA 23 BURWOOD AVENUE WOODVILLE NORTH

5012 SOUTH AUSTRALIA - AUSTRALIA

T (08) 8360 2200

info@laffort.com - www.laffort.com

#### Supplier, furnisher

LAFFORT ESPAÑA S.A.

TXIRRITA MALEO 12 APTDO 246
20100 RENTERIA (Guipúzcoa) - ESPAÑA
T 0034943344068 - F 0034943344281
info@laffort.com - 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 - www.laffort.com

#### Distributor

LAFFORT USA 1460 CADER LANE

SUITE C

CA 94954 PETALUMA - USA T+1 (707) 775 4530

<u>laffortusa@laffort.com</u> - <u>www.laffortusa.com</u>

# 1.4. Emergency telephone number

| Country   | Organisation/Company   | Address   | Emergency number                 | Comment |
|-----------|--|---|----------------------------------|---------|
| Australia | NSW Poisons Information Centre<br>The Children's Hospital at<br>Westmead | Locked Bag 4001<br>NSW 2145 Westmead  | 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<br>Centre (DPIC)                          | 655 West 12th Avenue<br>BC V5Z 4R4 Vancouver                                  | 1-800-567-8911<br>(604) 682-5050 |         |

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|---|----------------|--|--|-----------------------------|---|
| Institut za medicinisa istazianaja ja nediciniur rada mediciniur rada medicinium rada medici  | China          | National Poison Control Center                             | and Prevention<br>Nanwei road, No.29   | +86 10 831 32 046           |   |
| Milling pracomitho (Marishi VPN a 1. 1 20 00 Parlar 2   | Croatia        | Institut za medicinska istraživanja i                      | p.p. 291   | +385 1 234 8342             |   |
| Comparison  | Czech Republic | Klinika pracovního lékařství VFN a 1.                      |  |                             |   |
| Advisory Center   Department of Toxicology - 7 Asatian St. 380 077 Tollist  | Denmark        | Giftlinjen   | Opgang 20 C  | +45 82 12 12 12             |   |
| Hungary Craiges Kemial Bittonsagi Intéres Egésszégigy Toukológjai Tajákoratul Szolgálat (1437 Budapest, Pf. 839 1097 Budapest (1437 Budapest, Pf. 839 1098 Budapest, Pf. 839 1098 Budapest (1437 Budapest, Pf. 839 1098 Budapest, | Georgia        |  | Department of Toxicology - 7<br>Asatiani St.   | +995 99 533320              |   |
| Egességigue   Toxikologial   1037 Budapest, Pt.839   1097 Budapest   1908 Bu  | Greece         |  | 11762 Athens   | +30 2 10 779 3777           |   |
| Japan   Japan Poison Information Center   Talkuba Medical Center   1-1-1 Amakubo 305-0005 Tsukuba City, Ibaraki   841-72-727-2499   Sensitiva Center of Jordan   Page Poison Information   Talkuba Madu Poisons   Page Poison Information   Page Poison Information   Page Poison Information   Page Poison Information   Page Poison   Page Po  | Hungary        | Egészségügyi Toxikológiai                                  | 1437 Budapest, Pf. 839   | +36 80 20 11 99             |   |
| 1-1-1 Amakubo 305-0005 Tsukuba City, Ibaraki   481-72-727-2499   10-72-727-249-24-14   10-72-727-24-14   10-72-72   | Israel         |  |  | +972 4 854 1900             |   |
| Kazakhstan         Republican Toxicology Center         Tole-bi 93 A80083 Almaty         + 7 3272 925 868   | Japan          | Japan Poison Information Center                            | 1-1-1 Amakubo  |                             |   |
| Malta       Medicines & Poisons Info Office       Mater Del Hospital MSD Misla       *356 2545 6504         New Zealand       National Poisons Centre       Dunedin School of Medicine, University of Otago PO Box 913 9054 Dunedin       0800 764 766 +56 2 247 3600         Poland       National Poisons Information Centre The Nofer Institute of Occupational Medicine (Lódž)       ul. Teresy 8 P.O. BOX 199 90950 Lódź       +48 42 63 14 724         Romania       Department of Clinical Toxicology Spitalul de Urgenta Floreasca Bucuresti       2000 Lódź       +40 21 230 8000         Russia       Информационно-консультативный центр по токсикология (RTIAC) Министерство здравокранения Российской Федерации       3 Сухаревская Площадь Боко 7 1 29090 г. Москва       +7 495 628 1687 (только на русском)         Serbia       Nacionalni centar za kontrolu trovanja - VMA       Ститична к 17 11000 Веоgrad       +386 522 52 83         Slovenia       Tamakologijo Interna klinika, UKCL       Zaloška 7 1000 Ljubijana       +886 522 52 83         South Africa       Tygerberg Poison Information Centre Division of Clinical Pharmacology Faculty of Medicine and Heath Sciences Stellenbosch University - PO Box 241 8 000 Cape Town       865 52 247 3600         Sweden       Giftinformationscentralen       Sona Strandväg 21 171 54 Solna       112 - begär Giftinformation         Turkey       Ulusal Zehir Merkezi (UZEM)       Cemal Gürsel Cd. No: 18 Sihhiye       114       Information is provided to public  | Jordan         |  |  |                             |   |
| New Zealand       National Poisons Centre       Dunedin School of Medicine, University of Otago Po Box 913 9054 Dunedin       0800 764 766 +56 2 2 247 3600         Poland       National Poisons Information Centre The Nofer Institute of Occupational Medicine (£ód2)       u.t. Teresy 8 P.O. BOX 199 90950 £ód2       +48 42 63 14 724         Romania       Department of Clinical Toxicology Spitalul de Urgenta Floreasca Bucuresti       2 Calea Floreasca Bucuresti       +40 21 230 8000         Russia       Информационно-консультативный центр по токсикология (RTIAC) Министерство адравоохранения Российской Федерации       3 Сухаревская Площадь Блок 7 129030 г. Москва       +7 495 628 1687 (только на русском)         Serbia       Nacionalni centar za kontrolu trovanja - VMA       Стотатаvska 17 11000 Beograd       +381 11 360 84 40         Slovenia       Center za klinično toksikologijo in farmakologijo Interna klinika, UKCL       Zaloška 7 1000 Ujubljana       +386 522 52 83         South Africa       Tygerberg Poison Information Centre Scilenbosch University - PO Box 241 8000 Cape Town       Division of Clinical Pharmacology Faculty of Medicine and Heath Sciences Stellenbosch University - PO Box 241 8000 Cape Town         Sweden       Giftinformationscentralen       Solna Strandväg 21 171 54 Solna       112 - begär Giftinformation         Turkey       Ulusal Zehir Merkezi (UZEM)       Cemal Gürsel Cd. No: 18 Sinhiye       114       Information is provided to public   | Kazakhstan     | Republican Toxicology Center                               |  | +7 3272 925 868             |   |
| University of Otago PO Box 913 9054 Dunedin   | Malta          | Medicines & Poisons Info Office                            |  | +356 2545 6504              |   |
| Romania       Department of Clinical Toxicology Spitalul de Urgenta Floreasca Bucuresti       +40 21 230 8000       +40 21 230 8000         Russia       Информационно-консультативный центр по токсикология (RTIAC) Министерство здравоохранения Российской Федерации       3 Сухаревская Площадь Блок 7 129090 г. Москва       +7 495 628 1687 (только на русском)         Serbia       Nacionalni centar za kontrolu trovanja - VMA       Стотатачка 17 11000 Beograd       +381 11 360 84 40         Slovenia       Center za klinično toksikologijo in farmakologijo Interna klinika, UKCL       Zaloška 7 1000 Ljubljana       +386 522 52 83         South Africa       Tygerberg Poison Information Centre Stellenbosch University - PO Box 241 8 000 Cape Town       0861 555 777 +562 2 247 3600         Sweden       Giftinformationscentralen       Solna Strandväg 21 171 54 Solna       112 - begär Giftinformation         Turkey       Ulusal Zehir Merkezi (UZEM)       Cemal Gürsel Cd. No: 18 Shhiye       114       Information is provided to public   | New Zealand    | National Poisons Centre                                    | University of Otago<br>PO Box 913  |                             |   |
| Spitalul de Urgenta FloreascaBucurestiRussiaИнформационно-консультативный центр по токсикология (RTIAC) Министерство здравоохранения Российской Федерации3 Сухаревская Площадь Блок 7 129090 г. Москва+7 495 628 1687 (только на русском)SerbiaNacionalni centar za kontrolu trovanja - VMACmotravska 17 11000 Beograd+381 11 360 84 40SloveniaCenter za klinično toksikologijo in farmakologijo Interna klinika, UKCLZaloška 7 1000 Ljubljana+386 522 52 83South AfricaTygerberg Poison Information Centre Stellenbosch University - PO Box 241 8 000 Cape Town0861 555 777 +56 2 2 247 3600SwedenGiftinformationscentralenSolna Strandväg 21 171 54 Solna112 - begär GiftinformationTurkeyUlusal Zehir Merkezi (UZEM)Cemal Gürsel Cd. No: 18 Sihhiye114Information is provided to public  | Poland         | The Nofer Institute of Occupational                        | P.O. BOX 199   | +48 42 63 14 724            |   |
| центр по токсикология (RTIAC)<br>Министерство здравоохранения<br>Российской ФедерацииБлок 7<br>129090 г. Москварусском)SerbiaNacionalni centar za kontrolu<br>trovanja - VMAСmotravska 17<br>11000 Beograd+381 11 360 84 40SloveniaCenter za klinično toksikologijo in<br>farmakologijo<br>Interna klinika, UKCLZaloška 7<br>1000 Ljubljana+386 522 52 83South AfricaTygerberg Poison Information Centre<br>Faculty of Medicine and Heath<br>   | Romania        |  |  | +40 21 230 8000             |   |
| trovanja - VMA  11000 Beograd  Center za klinično toksikologijo in farmakologijo Interna klinika, UKCL  South Africa  Tygerberg Poison Information Centre Faculty of Medicine and Heath Sciences Stellenbosch University - PO Box 241 8 000 Cape Town  Sweden  Giftinformationscentralen  Solna Strandväg 21 171 54 Solna  Turkey  Ulusal Zehir Merkezi (UZEM)  11000 Beograd  +386 522 52 83   | Russia         | центр по токсикология (RTIAC) Министерство здравоохранения | Блок 7   | ,                           |   |
| farmakologijo Interna klinika, UKCL  South Africa  Tygerberg Poison Information Centre Sciences Stellenbosch University - PO Box 241 8 000 Cape Town  Turkey  Ulusal Zehir Merkezi (UZEM)  1000 Ljubljana  1000 Ljubljana  1000 Ljubljana  0861 555 777 +56 2 2 247 3600  Sef 2 2 247 3600  112 - begär Giftinformation  112 - begär Giftinformation  Information is provided to public   | Serbia         |  |  | +381 11 360 84 40           |   |
| Faculty of Medicine and Heath Sciences Stellenbosch University - PO Box 241 8 000 Cape Town  Sweden Giftinformationscentralen Solna Strandväg 21 171 54 Solna  Turkey Ulusal Zehir Merkezi (UZEM) Cemal Gürsel Cd. No: 18 Sıhhiye 114 Information is provided to public   | Slovenia       | farmakologijo  |  | +386 522 52 83              |   |
| Turkey Ulusal Zehir Merkezi (UZEM) Cemal Gürsel Cd. No: 18 Sıhhiye 114 Information is provided to public  | South Africa   | Tygerberg Poison Information Centre                        | Faculty of Medicine and Heath<br>Sciences<br>Stellenbosch University - PO Box<br>241 |                             |   |
|   | Sweden         | Giftinformationscentralen                                  | _  | 112 – begär Giftinformation |   |
| Başkanlığı 06590 Ankara incidents via 114.  | Turkey         | Refik Saydam Hıfzısıhha Merkezi                            | Çankaya  | 114                         | Information is provided to public and medical personnel on poisoning incidents via 114. |

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| United Kingdom              | National Poisons Information<br>Service (Belfast Centre)<br>Royal Victoria Hospital                                   | Grosvenor Road<br>BT12 6BA Belfast                          | 0344 892 0111                      |  |
|-----------------------------|---|---|------------------------------------|--|
| United Kingdom              | National Poisons Information<br>Service (Birmingham Centre)<br>City Hospital  | Dudley Road<br>B18 7QH Birmingham                           | 0344 892 0111                      |  |
| United Kingdom              | National Poisons Information<br>Service (Cardiff Centre)<br>Gwenwyn Ward, Llandough Hospital                          | Penarth<br>CF64 2XX Cardiff                                 | 0344 892 0111                      |  |
| United Kingdom              | National Poisons Information<br>Service Edinburgh<br>Royal Infirmary of Edinburgh                                     | Little France Crescent<br>EH16 4SA Edinburgh                | 0344 892 0111                      |  |
| United Kingdom              | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit, Guy's & St<br>Thomas' Hospital Trust                      | Avonley Road<br>SE14 5ER London                             | +44 20 7188 7188                   |  |
| United Kingdom              | National Poisons Information<br>Service (Newcastle Centre)<br>Regional Drugs and Therapeutics<br>Centre, Wolfson Unit | Claremont Place<br>Newcastle-upon-Tyne<br>NE1 4LP Newcastle | 0344 892 0111                      |  |
| United States of<br>America | American Association of Poison<br>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 statements: see section 16

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

No additional information available

### 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP) : Danger

Hazardous ingredients : Polygalacturonase 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.

P280 - Wear protective gloves, protective clothing/eye protection/face protection.

 $\label{eq:power_power_power} \textbf{P284-In case of inadequate ventilation wear respiratory protection.}$ 

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

#### 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.

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

Not applicable

# 3.2. Mixtures

| Name                     | Product identifier   |        | Classification according to<br>Regulation (EC) No. 1272/2008<br>[CLP] |
|--------------------------|--|--------|---|
| Polygalacturonase enzyme | (CAS-No.) 9032-75-1<br>(EC-No.) 232-885-6<br>(EC Index-No.) IUB n°3.2.1.15 | 5 - 10 | Resp. Sens. 1, H334   |

Full text of H-statements: see section 16

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#### **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.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician.

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.

: In case of eye contact, immediately rinse with clean water for 10-15 minutes. Remove contact lenses, if present First-aid measures after eve contact

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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 (CO2), powder, alcohol-resistant

foam, water spray.

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.

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

: Wear personal protective equipment. Protective equipment

: Ventilate spillage area. Do not touch or walk on the spilled product. Avoid contact with skin and eyes. Avoid **Emergency procedures** 

breathing dust, mist or 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

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

: Dust deposited may be vacuum cleaned or the area hosed down with water. Mechanically recover the product. Methods for cleaning up Contain leaking substance, pump over in suitable containers. Clean contaminated surfaces with an excess of

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.

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# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling

: 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.

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.

# 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 in a dry, cool place. Keep out of direct sunlight. Keep container tightly

closed to prevent moisture pick-up.

Heat and ignition sources

: Keep away from ignition sources (including static discharges).

### 7.3. Specific end use(s)

For œnological use.

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| LAFAZYM® CL                           |  |  |
|---------------------------------------|--|--|
| DNEL/DMEL (Workers)                   |  |  |
| Long-term - local effects, inhalation | 0,00006 mg/m³ Polygalacturonase enzyme |  |
| O.O. Europeuse combinate              |  |  |

#### 8.2. Exposure 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.

#### Personal protective equipment:

Refer to protective measures listed in Sections 7 and 8.

#### Materials for protective clothing:

Long sleeved 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. EN 374. Wash hands immediately after handling the product

### Eye protection:

Use eye protection according to EN 166, designed to protect against powders and dusts. Safety glasses with side shields

| Туре           | Field of application | Characteristics   | Standard |
|----------------|----------------------|-------------------|----------|
| Safety glasses | Dust                 | With side shields | EN 166   |

### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

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

#### 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
Appearance : Granulate.
Colour : Off-white, brown.

Odour : Product (article) characteristics.

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|---|---------------------|
| Odour threshold                                 | : No data available |
| pH  | : No data available |
| Relative evaporation rate (butylacetate=1)      | : No data available |
| Melting point                                   | : No data available |
| Freezing point                                  | : No data available |
| Boiling point                                   | : No data available |
| Flash point                                     | : No data available |
| Auto-ignition temperature                       | : No data available |
| Decomposition temperature                       | : No data available |
| Flammability (solid, gas)                       | : No data available |
| Vapour pressure                                 | : No data available |
| Relative vapour density at 20 °C                | : No data available |
| Relative density                                | : ≈ 0,65            |
| Solubility                                      | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic                            | : No data available |
| Viscosity, dynamic                              | : No data available |
| Explosive properties                            | : No data available |
| Oxidising properties                            | : No data available |
| Explosive limits                                | : No data available |
| 0.0 Other information                           |                     |

# 9.2. Other information

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

 $\label{lem:conditions} \textbf{Under normal conditions of storage and use, hazardous decomposition products should not be produced. See Heading 5.}$ 

# SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

| 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) |

| · · · · · · · · · · · · · · · · · · ·               |   |  |  |
|---|---|--|--|
| olygalacturonase enzyme (9032-75-1)                 |   |  |  |
| 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)         |  |  |
| Potential adverse human health effects and symptoms | : Sensitisation : contact can cause allergic reactions in humans.                           |  |  |
|   |   |  |  |

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# **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)

| Polygalacturonase enzyme (9032-75-1) |                   |
|--------------------------------------|-------------------|
| LC50 - Fish [1]                      | 58,3 - 326,7 mg/l |
| EC50 - Crustacea [1]                 | 31,7 - 457 mg/l   |
| ErC50 algae                          | > 5,2 mg/l 72h    |

# 12.2. Persistence and degradability

| Polygalacturonase enzyme (9032-75-1) |                        |
|--------------------------------------|------------------------|
| Persistence and degradability        | Readily biodegradable. |

# 12.3. Bioaccumulative potential

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

#### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. 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

| 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

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ADN

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

RID

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

14.4. Packing group

Packing group (ADR) : Not regulated Packing group (IMDG) : Not regulated : Not regulated Packing group (IATA) 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. Transport in bulk according to Annex II of Marpol and the IBC Code

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 REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

: None of the components are listed

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

### 15.1.2. National regulations

Germany

: WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1) Regulatory reference

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

SZW-lijst van kankerverwekkende stoffen : Polygalacturonase enzyme is listed SZW-lijst van mutagene stoffen : Polygalacturonase enzyme is listed NIET-limitatieve lijst van voor de voortplanting giftige stoffen -: None of the components are listed Borstvoeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen -

Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige stoffen -

: None of the components are listed

Ontwikkeling **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

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| SECTION 16: Other information |  |          |          |  |
|-------------------------------|--|----------|----------|--|
| Indication of changes:        |  |          |          |  |
| Section                       | Changed item                                     | Change   | Comments |  |
| 2.3                           | PBT text   | Added    |          |  |
| 5.1                           | Suitable extinguishing media                     | Modified |          |  |
| 5.2                           | Hazardous decomposition products in case of fire | Added    |          |  |
| 5.2                           | Fire hazard                                      | Added    |          |  |
| 5.3                           | Firefighting instructions                        | Added    |          |  |
| 6.1                           | General measures                                 | Modified |          |  |
| 6.1                           | Emergency procedures                             | Added    |          |  |
| 6.2                           | Environmental precautions                        | Added    |          |  |
| 6.3                           | Other information                                | Added    |          |  |
| 7.1                           | Additional hazards when processed                | Removed  |          |  |
| 7.1                           | Precautions for safe handling                    | Modified |          |  |
| 7.1                           | Hygiene measures                                 | Modified |          |  |
| 7.2                           | Heat and ignition sources                        | Added    |          |  |
| 8.2                           | Eye protection                                   | Modified |          |  |
| 8.2                           | Hand protection                                  | Modified |          |  |
| 11.1                          | Reason for no classification                     | Added    |          |  |
| 12.                           | Reason for no classification                     | Added    |          |  |
| 12.6                          | Other adverse effects                            | Modified |          |  |
| 13.1                          | Sewage disposal recommendations                  | Modified |          |  |
| 15.1                          | Water hazard class (WGK)                         | Added    |          |  |

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Resp. Sens. 1                       | Respiratory sensitisation, Category 1                                      |
| Н334                                | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |

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.