

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 19/01/2018 Re

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1/2018 Versio

Version: 1.0

1.1. Product identifier	
Product form	: Mixture
Trade name	: EXTRALYSE®
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 sa	afety 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

### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Australia	NSW Poisons Information Centre	The Children's Hospital at Westmead Locked Bag 4001 NSW 2145 Westmead	13 11 26 +56 2 2 247 3600	
Canada	Ontario Poison Centre (OPC)	The Hospital for Sick Children 555 University Avenue ON M5G 1X8 Toronto	1-800-268-9017 (416) 813-5900	
Canada	BC Drug and Poison Information Centre (DPIC)	655 West 12th Avenue BC V5Z 4R4 Vancouver	1-800-567-8911 (604) 682-5050	
China	National Poison Control Center	Chinese Center for Disease Control and Prevention Nanwei road, No.29 100050 Beijing	+86 10 831 32 046	
Croatia	Centar za kontrolu otrovanja Institut za medicinska istraživanja i medicinu rada	Ksaverska Cesta 2 p.p. 291 10000 Zagreb	+385 1 234 8342	

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Country	Organisation/Company	Address	Emergency number	Comment
Czech Republic	Toxikologické informační středisko Klinika pracovního lékařství VFN a 1. LF UK	Na Bojišti 1 120 00 Praha 2	+420 224 919 293 +420 224 915 402	
Georgia	National Toxicology Information Advisory Center	Tbilisi State Medical University Department of Toxicology - 7 Asatiani St. 380 077 Tbilisi	+995 99 533320	
Greece	Poisons Information Centre Children's Hospital P&A Kyriakou	11762 Athens	+30 2 10 779 3777	
Hungary	Országos Kémiai Biztonsági Intézet Egészségügyi Toxikológiai Tájékoztató Szolgálat	Nagyvárad tér 2. 1437 Budapest, Pf. 839 1097 Budapest	+36 80 20 11 99	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096 Haifa	+972 4 854 1900	
Japan	Japan Poison Information Center	Tsukuba Medical Center 1-1-1 Amakubo 305-0005 Tsukuba City, Ibaraki	+81-29-856-3566 +81-72-727-2499	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+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 2 247 3600	
Poland	National Poisons Information Centre The Nofer Institute of Occupational Medicine (Łódź)	ul. Teresy 8 P.O. BOX 199 90950 Łódź	+48 42 63 14 724	
Romania	Department of Clinical Toxicology Spitalul de Urgenta Floreasca	Calea Floreasca Bucuresti	+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)	
Slovenia	Center za klinično toksikologijo in farmakologijo Interna klinika, UKCL	Zaloška cesta 7 1525 Ljubljana	+386 41 650 500	
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	0861 555 777 +56 2 2 247 3600	
Turkey	Ulusal Zehir Merkezi (UZEM) Refik Saydam Hıfzısıhha Merkezi Başkanlığı	Cemal Gürsel Cd. No: 18 Sıhhiye Çankaya 6590 Ankara	114	Information is provided to public and medical personnel on poisoning incidents via 114.

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Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241	
United States of America	American Association of Poison Control Centers	515 King St., Suite 510 VA 22314 Alexandria	1-800-222-1222 +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 hazard classes and 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] Extra labelling to displayExtra classification(s) to display

 Hazard pictograms (CLP)
 :

	GHS08
Signal word (CLP)	: Danger
Hazard statements (CLP)	: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statements (CLP)	<ul> <li>P261 - Avoid breathing dust, fume, gas, mist, vapours, spray</li> <li>P285 - In case of inadequate ventilation wear respiratory protection</li> <li>P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER, a doctor</li> </ul>

P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER, a doctor P304+P341 - IF INHALED: if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

### 2.3. Other hazards

Other hazards not contributing to the 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

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### 3.2. **Mixtures**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Polygalacturonase enzyme	(CAS-No.) 9032-75-1 (EC-No.) 232-885-6	1-5	Resp. Sens. 1, H334
Beta-glucanase enzyme	(CAS-No.) 9074-98-0 (EC-No.) 232-979-7	1 - 5	Resp. Sens. 1, H334

### Full text of H-statements: see section 16

# SECTION 4: First aid measures

4.1. Description of first aid measur	es
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.
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.
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.
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 m	edical attention and special treatment needed
Treat symptomatically.	

# SECTION 5: Firefighting measures

5.1. Extinguishing media	
Suitable extinguishing media	: carbon dioxide (CO2), powder, alcohol-resistant foam, water spray.
Unsuitable extinguishing media	: Do not use water jet.

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	ubstance or mixture
lazardous decomposition products in case of ire	: Toxic fumes may be released.
5.3. Advice for firefighters	
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 measure	95
6.1. Personal precautions, protective e	quipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	: Wear personal protective equipment.
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.
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.	
6.3. Methods and material for containr	
n a memors and material for comain	ment and cleaning up
Methods for cleaning up	<ul> <li>Mechanically recover the product. Contain leaking substance, pump over in suitable containers. Clean contaminated surfaces with an excess of water.</li> </ul>
	: Mechanically recover the product. Contain leaking substance, pump over in suitable
Methods for cleaning up Other information	: Mechanically recover the product. Contain leaking substance, pump over in suitable containers. Clean contaminated surfaces with an excess of water.
Methods for cleaning up Other information 6.4. Reference to other sections	: Mechanically recover the product. Contain leaking substance, pump over in suitable containers. Clean contaminated surfaces with an excess of water.
Methods for cleaning up Other information <mark>6.4. Reference to other sections</mark> Concerning personal protective equipment to us	<ul> <li>Mechanically recover the product. Contain leaking substance, pump over in suitable containers. Clean contaminated surfaces with an excess of water.</li> <li>Dispose of materials or solid residues at an authorized site.</li> </ul>
Methods for cleaning up Other information 6.4. Reference to other sections Concerning personal protective equipment to us SECTION 7: Handling and storage	<ul> <li>Mechanically recover the product. Contain leaking substance, pump over in suitable containers. Clean contaminated surfaces with an excess of water.</li> <li>Dispose of materials or solid residues at an authorized site.</li> </ul>
Methods for cleaning up Other information 6.4. Reference to other sections Concerning personal protective equipment to us SECTION 7: Handling and storage 7.1. Precautions for safe handling	<ul> <li>Mechanically recover the product. Contain leaking substance, pump over in suitable containers. Clean contaminated surfaces with an excess of water.</li> <li>Dispose of materials or solid residues at an authorized site.</li> </ul>
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Methods for cleaning up Other information 6.4. Reference to other sections Concerning personal protective equipment to us SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures	<ul> <li>Mechanically recover the product. Contain leaking substance, pump over in suitable containers. Clean contaminated surfaces with an excess of water.</li> <li>Dispose of materials or solid residues at an authorized site.</li> <li>se, see section 8. For further information refer to section 13.</li> <li>Avoid dust formation. Store tightly closed in a dry and cool place. Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> </ul>
Methods for cleaning up         Other information         6.4.       Reference to other sections         Concerning personal protective equipment to us         SECTION 7: Handling and storage         7.1.       Precautions for safe handling         Precautions for safe handling         Hygiene measures         7.2.       Conditions for safe storage, include	<ul> <li>Mechanically recover the product. Contain leaking substance, pump over in suitable containers. Clean contaminated surfaces with an excess of water.</li> <li>Dispose of materials or solid residues at an authorized site.</li> <li>se, see section 8. For further information refer to section 13.</li> <li>Avoid dust formation. Store tightly closed in a dry and cool place. Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> </ul>
Methods for cleaning up Other information 6.4. Reference to other sections Concerning personal protective equipment to us SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures	<ul> <li>Mechanically recover the product. Contain leaking substance, pump over in suitable containers. Clean contaminated surfaces with an excess of water.</li> <li>Dispose of materials or solid residues at an authorized site.</li> <li>se, see section 8. For further information refer to section 13.</li> <li>Avoid dust formation. Store tightly closed in a dry and cool place. Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> </ul>
Methods for cleaning up         Other information         6.4.       Reference to other sections         Concerning personal protective equipment to us         SECTION 7: Handling and storage         7.1.       Precautions for safe handling         Precautions for safe handling         Hygiene measures         7.2.       Conditions for safe storage, includ         Technical measures	<ul> <li>Mechanically recover the product. Contain leaking substance, pump over in suitable containers. Clean contaminated surfaces with an excess of water.</li> <li>Dispose of materials or solid residues at an authorized site.</li> <li>se, see section 8. For further information refer to section 13.</li> <li>Avoid dust formation. Store tightly closed in a dry and cool place. Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> <li><b>ing any incompatibilities</b></li> <li>Keep only in the original container.</li> <li>Keep in a well-ventilated room. Store in a dry, cool place. Keep out of direct sunlight. Keep</li> </ul>

### 8.1. Control parameters

### 8.2. Exposure controls

### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 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. Nitrile rubber gloves. Butyl rubber gloves. Latex gloves. Wash hands immediately after handling the product

### Eye protection:

### Safety glasses

Туре	Use	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. Dust production: dust mask with filter type P1

### **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 : Powder. Colour : brown. Odour : Product characteristics. Odour threshold : No data available pH : No data available

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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.
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

### 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 additional information available

### 10.4. Conditions to avoid

Heat. flames or sparks. Moisture.

### 10.5. Incompatible materials

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### 10.6. Hazardous decomposition products

11.1.       Information on toxicological effects         Acute toxicity (oral)       : Not classified         Acute toxicity (dermal)       : Not classified	SECTION 11: Toxicological information	
	11.1. Information on toxicological effe	cts
Acute toxicity (dermal) : Not classified	Acute toxicity (oral)	: Not classified
	Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation) : Not classified	Acute toxicity (inhalation)	: Not classified

Polygalacturonase enzyme (9032-75-1)	
LD50 oral rat	> 2000 mg/kg

Beta-glucanase enzyme (9074-98-0)	
LD50 oral rat	> 2000 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Sensitisation : contact can cause allergic reactions in humans.

12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

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Polygalacturonase enzyme (9032-75-1)		
LC50 fish 1	58,3 - 326,7 mg/l	
EC50 Daphnia 1	≈ 31,7 - 457 mg/l	
ErC50 (algae)	> 5,2 mg/l 72h	
Beta-glucanase enzyme (9074-9	8-0)	
LC50 fish 1	58,3 - 326,7 mg/l	
EC50 Daphnia 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.	
Beta-glucanase enzyme (9074-98-0)		
Persistence and degradability	Readily biodegradable.	

### 12.3. Bioaccumulative potential

Polygalacturonase enzyme (9032-75-1)	
Log Pow	<0
Bioaccumulative potential	There is no bioaccumulation.
Beta-glucanase enzyme (9074-98-0)	
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

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.	

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# **SECTION 14: Transport information**

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

14.1. UN number	
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
14.2 Tropper at horses deless (as)	
14.3.    Transport hazard class(es)      ADR	
	· Not applicable
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
IATA	
Transport hazard class(es) (IATA)	: Not applicable
ADN	
Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
- · · · · · ·	
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

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14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport Not applicable

- Rail transport

Not applicable

### 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** 

### 15.1.2. National regulations

VwVwS Annex reference	: Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
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
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed
Denmark	
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product

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### 15.2. Chemical safety assessment

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

### SECTION 16: Other information

Full text of H- and EUH-statements:	
Resp. Sens. 1	Respiratory sensitisation, Category 1
H334	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