

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 30/01/2018 Rev

8 Revision date: 30/01/2018

8 Supersedes: 30/01/2018

0/01/2018 Version: 1.0

1.1. Product identifier	
Product form	: Substance
Trade name	: LYSOZYM
EC-No.	: 232-954-0
CAS-No.	: 9066-59-5
Type of product	: For œnological use
Formula	: C616H963N1930182S10 x HCI
Synonyms	: Lysozyme hydrochloride; Muramidase
Product group	: Trade product
Other means of identification	: E1105

1.2.	Relevant identified uses of	he substance or mixture and uses advised against
1.2.1.	Relevant identified uses	
Main us	e category	: Professional use
Industri	al/Professional use spec	: For professional users only
Use of t	he substance/mixture	: Enzyme with endo-glucosidase activity; hen egg white extract. Enzyme to delay or prevent malolactic fermentation by degrading lactic bacterial cell walls (Gram +).
Use of t	he 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

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	

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Country	Organisation/Company	Address	Emergency number	Comment
Croatia	Centar za kontrolu otrovanja	Ksaverska Cesta 2	+385 1 234 8342	
	Institut za medicinska	p.p. 291		
	istraživanja i medicinu rada	10000 Zagreb		
Czech Republic	Toxikologické informační	Na Bojišti 1	+420 224 919 293	
•	středisko	120 00 Praha 2	+420 224 915 402	
	Klinika pracovního lékařství			
	VFN a 1. LF UK			
Georgia	National Toxicology	Tbilisi State Medical	+995 99 533320	
acoigia	Information Advisory Center	University	1000000020	
		Department of Toxicology - 7		
		Asatiani St.		
		380 077 Tbilisi		
Greece	Poisons Information Centre	11762 Athens	+30 2 10 779 3777	
Gleece	Children's Hospital P&A	11702 Autens	+302 10 119 3111	
	-			
	Kyriakou			
Hungary	Országos Kémiai Biztonsági	Nagyvárad tér 2.	+36 80 20 11 99	
	Intézet	1437 Budapest, Pf. 839		
	Egészségügyi Toxikológiai	1097 Budapest		
	Tájékoztató Szolgálat			
Israel	Israel Poison Information	6 Ha'Aliya Street	+972 4 854 1900	
	Center	31096 Haifa		
	Rambam Health Care			
	Campus			
Japan	Japan Poison Information	Tsukuba Medical Center	+81-29-856-3566	
•	Center	1-1-1 Amakubo	+81-72-727-2499	
		305-0005 Tsukuba City,		
		Ibaraki		
Malta	Medicines & Poisons Info	Mater Dei Hospital	+356 2545 6504	
	Office	MSD Msida		
New Zealand	National Poisons Centre	Dunedin School of Medicine,	0800 764 766	
Louidina		University of Otago	+56222473600	
		PO Box 913		
		9054 Dunedin		
Poland	National Poisons Information	ul. Teresy 8	+48 42 63 14 724	
i olanu	Centre	P.O. BOX 199	140 42 03 14 724	
	The Nofer Institute of	90950 Łódź		
	Occupational Medicine (Łódź)	50550 2002		
Demenie	,		. 40.04.020.0000	
Romania	Department of Clinical	Calea Floreasca Bucuresti	+40 21 230 8000	
	Toxicology	Bucuresu		
	Spitalul de Urgenta Floreasca			
Russia	Информационно-	З Сухаревская Площадь	+7 495 628 1687	
	консультативный центр по	Блок 7	(только на русском)	
	токсикология (RTIAC)	129090 г. Москва		
	Министерство			
	здравоохранения			
	Российской Федерации			
Slovenia	Center za klinično	Zaloška cesta 7	+386 41 650 500	
	toksikologijo in farmakologijo	1525 Ljubljana		
	Interna klinika, UKCL			
South Africa	Tygerberg Poison Information	Division of Clinical	0861 555 777	
	Centre	Pharmacology Faculty of	+56222473600	
		Medicine and Heath Sciences		
		Stellenbosch University - PO		
		Box 241		
	1	8 000 Cape Town	1	

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Country	Organisation/Company	Address	Emergency number	Comment
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.
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 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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)	 P261 - Avoid breathing dust, fume, gas, mist, vapours, spray P285 - In case of inadequate ventilation wear respiratory protection P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician 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 haza	rds
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Other hazards not contributing to the classification

: May cause sensitization by inhalation and skin contact. mild eye irritation. mild skin irritation.

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SECTION 3: Composition/information on ingredients

3.1. Substances	
Substance type	: Mono-constituent
Name	: LYSOZYM
CAS-No.	: 9066-59-5
EC-No.	: 232-954-0

Name	Product identifier	%
Lysozyme (E1105)	(CAS-No.) 9066-59-5 (EC-No.) 232-954-0 (REACH-no) 01-2120086351-59	100

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measu	res
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.
10 Masting data and an and a second	defined a bath south and defined
	d 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 n	nedical 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. Water spray. Dry powder. Foam.

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Other information : Do not contaminate ground and surface water. Dispose in a safe manner in accordance with incal/national regulations. SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures 6.1.1. For non-emergency personal Protective equipment : Wear personal protective equipment. Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fum? gay.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. Environment. Do not flush into surface water or sewer system. 6.3. Methods and material for containment and cleaning up Methods for cleaning up : 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. 6.4. Reference to other sections Concerning personal protective equipment : Avoid dust formation. Store tightly closed in a dry and cool place. Ensure good ventillation of the work station. Avoid contact with		ubstance or mixture
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Other information :: Do not cattempt to take action without suitable protective equipment. Self-contained gurdance water. Dispose in a safe manner in accordance with local/national regulations. SECTION 6: Accidental release measures 6.1. Personal processions, protective equipment 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. 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 protective equipment. For further information refer to section 8: "Exposure controls/personal protective equipment. 6.2. Environmental precautions Avoid release to the environment. Do not flush into surface water or sever system. 6.3. Methods and material for containment and cleaning up Methods for cleaning up : Mechanically recover the product. Contain leaking substance, pump over in suitable containment and clean ontainminead surface		: Toxic fumes may be released.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.4		EN 374

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. EN 149

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 bas	sic physical and chemical properties	
Physical state	: Solid	
Appearance	: Powder.	

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Colour	: White to off-white.
Odour	: Product characteristics.
Odour threshold	: No data available
pH	: No data available
pH solution	: 3-3,62%
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: 208 °C
Flammability (solid, gas)	: Non flammable
Vapour pressure	: 147 Pa 20°C
Relative vapour density at 20 °C	: No data available
Relative density	: ≈0,988 20°C
Solubility	: Soluble in water. Insoluble in oils/fats. Water: 285 g/l 20°C - pH 4
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

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.

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10.4. Conditions to avoid

Keep away from heat and direct sunlight. Heat. flames or sparks. Moisture.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

See Heading 5.

SECTION 11: Toxicological information

11.1.	Information on to	xicological effects
Acute to:	xicity (oral)	: Not classified
Acute to:	xicity (dermal)	: Not classified
Acute to:	xicity (inhalation)	: Not classified

Lysozyme (E1105) (9066-59-5)	
LD50 oral rat	> 5050 mg/kg
LD50 dermal rabbit	> 5050 mg/kg
LC50 inhalation rat (mg/l)	>2,51 mg/l/4h
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

Lysozyme (E1105) (9066-59-5)		
NOAEL (animal/male, F0/P)	> 200 mg/kg	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	

Lysozyme (E1105) (9066-59-5)	
NOAEL (oral, rat, 90 days)	> 500 mg/kg bodyweight/day
Aspiration hazard	: Not classified

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

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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.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

Lysozyme (E1105) (9066-59-5)	
LC50 fish 1	> 1 g/l Cyprinus carpio
LC50 fish 2	> 1 g/l Danio rerio
EC50 Daphnia 1	> 1 mg/l Daphnia magna
ErC50 (algae)	> 97 mg/l 72h - Desmodesmus subspicatus

12.2. Persistence and degradability

Lysozyme (E1105) (9066-59-5)	
Persistence and degradability F	Readily biodegradable.

12.3. Bioaccumulative potential

Lysozyme (E1105) (9066-59-5)	
Log Pow	<0,01 25°C
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. Not dangerous for the ozone layer. 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. : Empty remaining contents. Dispose of contents/container in accordance with licensed Product/Packaging disposal recommendations collector's sorting instructions. **SECTION 14: Transport information**

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

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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
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not regulated
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
Packing group (IATA)	: Not regulated
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated
	<u> </u>
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	

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- 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

No REACH Annex XVII restrictions LYSOZYM is not on the REACH Candidate List LYSOZYM is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: LYSOZYM is listed
SZW-lijst van mutagene stoffen	: LYSOZYM is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product $% \left({{{\rm{D}}} {{\rm{D}}} $

15.2. Chemical safety assessment

A chemical safety assessment has been carried out No chemical safety assessment has been carried out

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SECTION 16: Other information

Full text of H- and EUH-statements:	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