

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

1.1. Product identifier

Product form	: Substance
Trade name	: AMMONIUM SULPHATE LAFFORT
Chemical name	: Ammonium sulphate
EC-No.	: 231-984-1
CAS-No.	: 7783-20-2
REACH registration No	: 01-2119455044-46
Type of product	: Acids
Formula	: (NH ₄) ₂ SO ₄
Product group	: Trade product
Other means of identification	: E517

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	: Growing activator for yeasts during the alcoholic fermentation.
Use of the substance/mixture	: For œnological use
Function or use category	: Food/feedstuff additives

1.2.2. Uses advised against

Restrictions on use	: Food/feedstuff additives
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1.3. Details of the supplier of the safety data sheet

Manufacturer

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33072 BORDEAUX CEDEX - FRANCE
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info@laffort.com - www.laffort.com

Distributor

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5012 SOUTH AUSTRALIA - AUSTRALIA
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Manufacturer

LAFFORT ESPAÑA S.A.
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20100 RENTERIA (Guipúzcoa) - ESPAÑA
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Distributor

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Distributor

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Distributor

LAFFORT USA
1460 CADER LANE
SUITE C

CA 94954 PETALUMA - USA

T +1 (707) 775 4530

laffortusa@laffort.com - www.laffortusa.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	
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 токсикологии (RTIAC) Министерство здравоохранения Российской Федерации	3 Сухареvская 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	

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South Africa	Tygerberg Poison Information Centre	Division of Clinical Pharmacology Faculty of Medicine and Health 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 Hıfzıssıhha 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	+44 20 7188 7188	
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]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

According to EC directives or the corresponding national regulations there is no labelling obligation for this product.

No labelling applicable

2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type	: Mono-constituent
Name	: AMMONIUM SULPHATE LAFFORT
CAS-No.	: 7783-20-2
EC-No.	: 231-984-1

Name	Product Identifier	%
Ammonium sulphate - E 517	(CAS-No.) 7783-20-2 (EC-No.) 231-984-1 (REACH-no) 01-2119455044-46	100

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If symptoms persist call a doctor.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Keep warm and in a quiet place. If symptoms persist, call a physician. Apply artificial respiration if victim is not breathing. If unconscious, place in the recovery position and seek medical advice.
First-aid measures after skin contact	: Remove contaminated clothes. After contact with skin, wash immediately and thoroughly with water and soap. Do not use solvents or thinners. 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. Ensure adequate flushing of eyes by separating eyelids with the fingers. 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 give anything to drink. Do not induce vomiting. 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	: Irritation: may cause irritation to the respiratory system.
Symptoms/effects after eye contact	: Eye irritant upon direct contact.
Symptoms/effects after ingestion	: Ingestion may cause nausea and vomiting.

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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. Not combustible.
- Unsuitable extinguishing media : Do not use water jet.

5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : Fire will produce dense black smoke. When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides (NO_x).

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 : Evacuate personnel to a safe area.

6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended 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

Avoid release to the environment. Do not flush into surface water or sewer system.

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 : 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. Keep away from ignition sources (including static discharges).
- 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. 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 container tightly closed to prevent moisture pick-up. Store in a dry, cool place. Keep out of direct sunlight. Store in a well-ventilated place. Keep cool.
- Incompatible products : Oxidizing agents, bases and reducing agents. Strong acids, strong oxidants.
- Incompatible materials : Do not mix with oxidizing agents. May react with aluminium.
- Heat and ignition sources : Keep away from ignition sources (including static discharges).

7.3. Specific end use(s)

For oenological use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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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:					
acid resistant clothing. Antistatic clothing. EN 340. EN 1149					
Hand protection:					
Protective gloves. Nitrile rubber gloves					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemically resistant protective gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	>0.3		EN ISO 374
Eye protection:					
Safety glasses					
Type	Use	Characteristics	Standard		
Safety glasses, Face shield	Dust			EN 166, EN 167, EN 168	
Skin and body protection:					
Wear suitable protective clothing					
Type					Standard
Chemically resistant protective gloves					EN 374
Antistatic clothing					EN 340, EN 1149-1, EN 1149-2, EN 1149-3, EN 1149-5
Respiratory protection:					
Wear suitable respiratory equipment in case of insufficient ventilation					
Device	Filter type	Condition	Standard		
Dust mask	Particle filter	Protection for Solid particles, Vapour protection		EN 136, EN 140, EN 145, EN 405	

Personal protective equipment symbol(s):**Environmental exposure controls:**

Do not allow into drains or water courses. Avoid release to the environment.

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	: Crystals.
Colour	: white.
Odour	: odourless.
Odour threshold	: No data available
pH	: No data available
pH solution	: 4 - 6
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: ≈ 280 °C 1.013 hPa
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable

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Auto-ignition temperature	: Not applicable
Decomposition temperature	: > 235 °C
Flammability (solid, gas)	: No data available
Vapour pressure	: < 0,01 kPa
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Density	: ≈ 1,769 g/cm ³ 50 °C
Solubility	: Water: 754 g/l 20 °C
Partition coefficient n-octanol/water (Log Pow)	: -5,1
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: No data available
Explosive limits	: Not applicable

9.2. Other information

Fat solubility : N/D

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. Keep away from heat and direct sunlight.

10.5. Incompatible materials

Strong acids. oxidation agents, reductor agents and bases.

10.6. Hazardous decomposition products

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
Acute toxicity (inhalation)	: Not classified

Ammonium sulphate - E 517 (7783-20-2)

LD50 oral rat	> 2000 mg/kg bodyweight OECD 423
LD50 oral	4250 mg/kg OECD 401, rat
LD50 dermal rat	> 2000 mg/kg OECD 434
LC50 inhalation rat (mg/l)	3,6 ml/m ³ OECD 433, 4h

Skin corrosion/irritation	: May be slightly irritating to skin and eyes (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: May be slightly irritating to skin and eyes. Possible risk of irreversible effects (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
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)

Ammonium sulphate - E 517 (7783-20-2)

NOAEL (chronic, oral, animal/male, 2 years)	256 mg/kg bodyweight OECD 453, Rat
NOAEL (chronic, oral, animal/female, 2 years)	284 mg/kg bodyweight OECD 453, Rat

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

Ammonium sulphate - E 517 (7783-20-2)

NOAEL (animal/male, F0/P)	5000 mg/kg OECD 415, mouse
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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)

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
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

Ammonium sulphate - E 517 (7783-20-2)	
LC50 fish 1	120 mg/l
LC50 other aquatic organisms 1	57,2 mg/l Propopium williamsoni, 96h
LC50 other aquatic organisms 2	53 mg/l Oncorhynchus mykiss, 96h
EC50 Daphnia 1	129 mg/l Ceriodaphnia acanthine, 48h
EC50 Daphnia 2	169 mg/l Daphnia magna, 48h
EC50 other aquatic organisms 1	1618 mg/l Activated sludge, 30min
EC50 72h algae (1)	6,6 mg/l
EC50 96h algae (1)	1605 mg/l Chlorella vulgaris, 5d

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

AMMONIUM SULPHATE LAFFORT (7783-20-2)	
Partition coefficient n-octanol/water (Log Pow)	-5,1

Ammonium sulphate - E 517 (7783-20-2)	
Partition coefficient n-octanol/water (Log Pow)	-5,1

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.
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 / RID / IMDG / IATA / ADN

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

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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

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. 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

AMMONIUM SULPHATE LAFFORT is not on the REACH Candidate List

AMMONIUM SULPHATE LAFFORT is not on the REACH Annex XIV List

AMMONIUM SULPHATE LAFFORT is not 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.

AMMONIUM SULPHATE LAFFORT is not 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

Regulatory reference : WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 296)

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

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed

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NIET-limitatieve lijst van voor de voortplanting giftige stoffen - : The substance is not listed
Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige stoffen - : The substance is not listed
Ontwikkeling

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Revision - See : *

Section	Changed item	Change	Comments
4.2	Symptoms/ effects after inhalation	Added	
4.2	Symptoms/ effects after eye contact	Added	
4.2	Symptoms/ effects after ingestion	Added	
5.1	Suitable extinguishing media	Modified	
5.3	Firefighting instructions	Modified	
6.3	Methods for cleaning up	Modified	
7.1	Hygiene measures	Modified	
8.1	Long-term - systemic effects, dermal	Added	
8.1	Long-term - systemic effects, inhalation	Added	
8.1	Long-term - systemic effects, oral	Added	
8.1	Long-term - systemic effects, inhalation	Added	
8.1	Long-term - systemic effects, dermal	Added	
8.1	PNEC aqua (freshwater)	Added	
8.1	PNEC aqua (marine water)	Added	
8.1	PNEC aqua (intermittent, freshwater)	Added	
8.1	PNEC sewage treatment plant	Modified	
8.1	PNEC sediment (freshwater)	Added	
8.1	PNEC soil	Added	
9.1	Decomposition temperature	Added	
9.1	Vapour pressure	Added	
9.1	pH solution	Modified	
9.2	Fat solubility	Added	
10.6	Hazardous decomposition products	Modified	
11	Reason for no classification	Added	
11	NOAEL (animal/ male, F0/P)	Added	
11	NOAEL (animal/ male, F1)	Added	
11.1	Serious eye damage/irritation - comment	Added	
11.1	LD50 dermal rat	Added	
11.1	NOAEL (chronic, oral, animal/ male, 2 years)	Added	
11.1	NOAEL (chronic, oral, animal/ female, 2 years)	Added	
12.	Reason for no classification	Added	
12.1	LC50 fish 2	Added	
12.1	LC50 other aquatic organisms 1	Added	
12.1	LC50 other aquatic organisms 2	Added	
12.1	EC50 other aquatic organisms 1	Added	
12.1	EC50 Daphnia 2	Added	

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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.