

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form	: Substance
Trade name	: SULFATE D'AMMONIUM
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 (Override)	: (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**

LAMOTHE-ABIET

Avenue Ferdinand de Lesseps ZA-ACTIPOLIS

33610 CANEJAN - France

T +33557779292

contact@lamothe-abiet.com**1.4. Emergency telephone number**

No additional information available

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

SULFATE D'AMMONIUM

Safety Data Sheet

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

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 which do not result in classification : None under normal conditions.

SECTION 3: Composition/information on ingredients

3.1. Substances

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ammonium sulphate - E 517	(CAS-No.) 7783-20-2 (EC-No.) 231-984-1 (REACH-no) 01-2119455044-46	100	Not classified

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.

SULFATE D'AMMONIUM

Safety Data Sheet

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

Symptoms/effects after eye contact	: Eye irritant upon direct contact.
Symptoms/effects after ingestion	: Ingestion may cause nausea and vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: If there is a fire close by, use suitable extinguishing agents. carbon dioxide (CO ₂), 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).
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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.
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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".
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6.2. Environmental precautions

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

SULFATE D'AMMONIUM

Safety Data Sheet

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

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

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

SULFATE D'AMMONIUM

Safety Data Sheet

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

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Refer to protective measures listed in Sections 7 and 8.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:			
Safety glasses			
Type	Field of application	Characteristics	Standard
Safety glasses, Face shield	Dust		EN 166, EN 167, EN 168

8.2.2.2. Skin protection

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

Hand protection:
Protective gloves. Nitrile rubber gloves

SULFATE D'AMMONIUM

Safety Data Sheet

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

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemically resistant protective gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	>0.3		EN ISO 374

Other skin protection

Materials for protective clothing:

acid resistant clothing. Antistatic clothing. EN 340. EN 1149

8.2.2.3. Respiratory protection

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

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

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

Other information:

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: white.
Appearance	: Crystals.
Odour	: odourless.
Odour threshold	: Not available
Melting point	: $\approx 280\text{ }^{\circ}\text{C}$ 1.013 hPa
Freezing point	: Not applicable
Boiling point	: Not available
Flammability	: Not available
Explosive properties	: Not explosive.
Explosive limits	: Not applicable
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable

SULFATE D'AMMONIUM

Safety Data Sheet

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

Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: > 235 °C
pH	: Not available
pH solution	: 4 – 6
Viscosity, kinematic	: Not applicable
Solubility	: Water: 754 g/l 20°C
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: -5.1
Vapour pressure	: < 0.01 kPa
Vapour pressure at 50°C	: Not available
Density	: $\approx 1.769 \text{ g/cm}^3$ 50°C
Relative density	: Not applicable
Relative vapour density at 20°C	: Not applicable
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle aggregation state	: Not available
Particle agglomeration state	: Not available
Particle specific surface area	: Not available
Particle dustiness	: Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

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 of use.

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.

SULFATE D'AMMONIUM

Safety Data Sheet

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

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 Section 5.

SECTION 11: Toxicological information

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

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

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 bodyweight Animal: rat, Guideline: OECD Guideline 434 (Acute Dermal Toxicity - Fixed Dose Procedure)
LC50 Inhalation - Rat	3.6 mg/l/4h 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) (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) (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met) (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 Animal: rat, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
NOAEL (chronic, oral, animal/female, 2 years)	284 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

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

Safety Data Sheet

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

Ammonium sulphate - E 517 (7783-20-2)	
NOAEL (animal/male, F0/P)	5000 mg/kg OECD 415, mouse

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)
(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)
(Based on available data, the classification criteria are not met)

Ammonium sulphate - E 517 (7783-20-2)	
NOAEL (subacute, oral, animal/male, 28 days)	256 mg/kg bodyweight/day
NOAEL (subacute, oral, animal/female, 28 days)	284 mg/kg bodyweight/day

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

SULFATE D'AMMONIUM (7783-20-2)	
Viscosity, kinematic	Not applicable

11.2. Information on other hazards

No additional information available

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)
(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)
(Based on available data, the classification criteria are not met)

Ammonium sulphate - E 517 (7783-20-2)	
LC50 - Fish [1]	53 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
LC50 - Fish [2]	57.2 mg/l Test organisms (species): Prosopium williamsoni
LC50 - Other aquatic organisms [1]	57.2 mg/l Propopium williamsoni, 96h
LC50 - Other aquatic organisms [2]	53 mg/l Oncorhynchus mykiss, 96h
EC50 - Crustacea [1]	169 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	169 mg/l Daphnia magna, 48h

SULFATE D'AMMONIUM

Safety Data Sheet

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

EC50 - Other aquatic organisms [1]	121.7 mg/l Test organisms (species): other:
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

SULFATE D'AMMONIUM (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. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Empty remaining contents. Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

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

14.1. UN number or ID number

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

SULFATE D'AMMONIUM

Safety Data Sheet

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

UN-No. (ADN) : Not regulated

UN-No. (RID) : Not regulated

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated

Proper Shipping Name (IMDG) : Not regulated

Proper Shipping Name (IATA) : Not regulated

Proper Shipping Name (ADN) : Not regulated

Proper Shipping Name (RID) : Not regulated

14.3. Transport hazard class(es)

ADR

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

IMDG

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

IATA

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

ADN

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

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

SULFATE D'AMMONIUM

Safety Data Sheet

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

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Not listed on REACH Annex XVII

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

Not listed on REACH Annex XIV (Authorisation List)

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

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

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 296)

Override matching entry (12. BImSchV) : Is not subject to the Major Accidents Ordinance (12. BImSchV)

Netherlands

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

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

SZW-lijst van reprotoxische stoffen –

Borstvoeding

SZW-lijst van reprotoxische stoffen – : The substance is not listed

Vruchtbaarheid

SZW-lijst van reprotoxische 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	

SULFATE D'AMMONIUM

Safety Data Sheet

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

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	

SULFATE D'AMMONIUM

Safety Data Sheet

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

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	

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.