

Safety Data Sheet

according to Regulation (EC) No 1907/2006

NATURAL ETHYL ACETO ACETATE

Revision date: 20.03.2023

Product code: 241500

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

NATURAL ETHYL ACETO ACETATE

Substance name: NATURAL ETHYL ACETO ACETATE
 CAS No: 141-97-9
 EC No: 205-516-1

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Manufacturing of: - Air care products - Perfumes, fragrances - Pharmaceuticals - Cosmetics, personal care products - Flavouring Substances - Other

1.3. Details of the supplier of the safety data sheet

Company name: Axxence Aromatic GmbH
 Street: Tackenweide 28
 Place: D-46446 Emmerich am Rhein
 Telephone: + 49 2822 68561 0 Telefax: + 49 2822 68561 39
 e-mail: info@axxence.com
 Contact person: Andreas Goertz Telephone: + 49 2822 68561 37
 e-mail: andreas.goertz@axxence.com
 Internet: www.axxence.de
 Responsible Department: QM - Regulatory Affairs

1.4. Emergency telephone number:

+49 2822 68561 99

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

This substance is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements**2.3. Other hazards**

No information available.

SECTION 3: Composition/information on ingredients**3.1. Substances**

Sum formula: C₆ H₁₀ O₃
 Molecular weight: 130,14

Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	Classification (Regulation (EC) No 1272/2008)	
141-97-9	NATURAL ETHYL ACETO ACETATE	100 %
	205-516-1	

Full text of H and EUH statements: see section 16.

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
141-97-9	205-516-1	NATURAL ETHYL ACETO ACETATE	100 %
		dermal: LD50 = >5000 mg/kg; oral: LD50 = >10800 mg/kg	

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of water.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

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

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

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Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special measures are necessary.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage

No special measures are necessary.

7.3. Specific end use(s)

Manufacturing of: - Air care products - Perfumes, fragrances - Pharmaceuticals - Cosmetics, personal care products - Flavouring Substances - Other

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Name of agent		
DNEL type	Exposure route	Effect	Value
141-97-9	NATURAL ETHYL ACETO ACETATE		
Worker DNEL, long-term	inhalation	systemic	29,17 mg/m ³
Worker DNEL, long-term	dermal	systemic	8,33 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	6,25 mg/m ³
Consumer DNEL, long-term	dermal	systemic	4,17 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	4,17 mg/kg bw/day

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PNEC values

CAS No	Name of agent	
Environmental compartment		Value
141-97-9	NATURAL ETHYL ACETO ACETATE	
Freshwater		0,1 mg/l
Freshwater (intermittent releases)		1 mg/l
Marine water		0,01 mg/l
Freshwater sediment		0,15 mg/kg
Marine sediment		0,015 mg/kg
Micro-organisms in sewage treatment plants (STP)		300 mg/l
Soil		0,05 mg/kg

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Suitable gloves type

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	colourless
Odour:	fruity
Melting point/freezing point:	-50 °C
Boiling point or initial boiling point and boiling range:	180 °C
Flammability:	not determined
Lower explosion limits:	1
Upper explosion limits:	not determined
Flash point:	74 °C
Auto-ignition temperature:	350 °C
Decomposition temperature:	not determined
pH-Value (at 20 °C):	4
Viscosity / kinematic: (at 20 °C)	1,696 mm ² /s
Water solubility: (at 20 °C)	130 g/L
Solubility in other solvents	not determined
Partition coefficient n-octanol/water:	0,8

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Vapour pressure: (at 20 °C)	0,26 hPa
Vapour pressure: (at 50 °C)	3,5 hPa
Density (at 20 °C):	1,03 g/cm ³
Relative vapour density: (at 20 °C)	4,48

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive. not explosive according to EU A.14

Oxidizing properties

The product is not: oxidising.

Other safety characteristics

Evaporation rate:	not determined
Solvent content:	0%
Solid content:	0%
Viscosity / dynamic: (at 20 °C)	1,67 mPa·s

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
141-97-9	NATURAL ETHYL ACETO ACETATE				
	oral	LD50 >10800 mg/kg	Rat	REACH Registration	OECD 401
	dermal	LD50 >5000 mg/kg	Rat	REACH Registration	OECD 402

Irritation and corrosivity

Based on available data, the classification criteria are not met.

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Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

Further information

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
141-97-9	NATURAL ETHYL ACETO ACETATE					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Danio rerio (zebrafish)	REACH Registration	OECD 203
	Acute algae toxicity	ErC50 >100 mg/l	72 h	Desmodesmus subspicatus	REACH Registration	OECD 201
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna (Big water flea)	REACH Registration	OECD 202

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
141-97-9	NATURAL ETHYL ACETO ACETATE			
	OECD 301D	66%	28	REACH Registration
	Readily biodegradable (according to OECD criteria).			
	OECD 301D	65%	7	REACH Registration
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
141-97-9	NATURAL ETHYL ACETO ACETATE	0,8

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

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This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

The product has not been tested.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:

No transport classification available. Transport carrier not used.

14.2. UN proper shipping name:

No transport classification available. Transport carrier not used.

14.3. Transport hazard class(es):

No transport classification available. Transport carrier not used.

14.4. Packing group:

No transport classification available. Transport carrier not used.

Inland waterways transport (ADN)

14.1. UN number or ID number:

No transport classification available. Transport carrier not used.

14.2. UN proper shipping name:

No transport classification available. Transport carrier not used.

14.3. Transport hazard class(es):

No transport classification available. Transport carrier not used.

14.4. Packing group:

No transport classification available. Transport carrier not used.

Marine transport (IMDG)

14.1. UN number or ID number:

No transport classification available. Transport carrier not used.

14.2. UN proper shipping name:

No transport classification available. Transport carrier not used.

14.3. Transport hazard class(es):

No transport classification available. Transport carrier not used.

14.4. Packing group:

No transport classification available. Transport carrier not used.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:

No transport classification available. Transport carrier not used.

14.2. UN proper shipping name:

No transport classification available. Transport carrier not used.

14.3. Transport hazard class(es):

No transport classification available. Transport carrier not used.

14.4. Packing group:

No transport classification available. Transport carrier not used.

14.5. Environmental hazards

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ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

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

EU regulatory information

2010/75/EU (VOC):	100 % (1030 g/l)
2004/42/EC (VOC):	100 % (1030 g/l)
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

Additional information

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,3,4,5,6,7,8,9,10,11,13,14,15,16.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

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RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.