

Safety Data Sheet

NATURAL ETHYL ACETATE

Revision date: 02/21/2024

Product code: 241410US

Page 1 of 12

1. Identification

Product identifier

NATURAL ETHYL ACETATE

Substance name: NATURAL ETHYL ACETATE
CAS No: 141-78-6
Index No: 607-022-00-5
EC No: 205-500-4

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

For Flavour use for food and feed only

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
E-mail: info@axxence.com
Contact person: Safety Team
E-mail: safety-documentation@axxence.com
Internet: www.axxence.de
Responsible Department: Safety Management

Telefax: + 49 2822 68561 39

Telephone: + 49 2822 68561 0

Emergency phone number: +49 2822 68561 99

2. Hazard(s) identification

Classification of the chemical

Regulation (EC) No 1272/2008

Flam. Liq. 2; H225
Eye Irrit. 2; H319
STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

Label elements

Regulation (EC) No 1272/2008

Signal word: Danger

Pictograms:



Hazard statements

H225 Highly flammable liquid and vapor
H319 Causes serious eye irritation
H336 May cause drowsiness or dizziness

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

Safety Data Sheet

NATURAL ETHYL ACETATE

Revision date: 02/21/2024

Product code: 241410US

Page 2 of 12

P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container to Organic waste.

Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

3. Composition/information on ingredients

Substances

Sum formula: C₄ H₈ O₂
Molecular weight: 88,11 g/mol

Relevant ingredients

CAS No	Components			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
141-78-6	NATURAL ETHYL ACETATE			100 %
	205-500-4	607-022-00-5		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Components	Quantity
		Specific Conc. Limits, M-factors and ATE	
141-78-6	205-500-4	NATURAL ETHYL ACETATE	100 %
	dermal: LD50 = >20000 mg/kg; oral: LD50 = 5620 mg/kg		

4. First-aid measures

Description of first aid measures

After inhalation

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

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

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Water spray jet, Carbon dioxide (CO₂), Foam, Extinguishing powder.

Safety Data Sheet

NATURAL ETHYL ACETATE

Revision date: 02/21/2024

Product code: 241410US

Page 3 of 12

Specific hazards arising from the chemical

Highly flammable. Vapors may form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

Special protective equipment and precautions for fire-fighters

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

Additional information

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

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition.

For emergency responders

Wear a self-contained breathing apparatus and chemical protective clothing.

Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

Methods and material for containment and cleaning up

For cleaning up

Ventilate affected area.

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.

Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fume/vapor/spray.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Vapors may form explosive mixtures with air.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary.

When using do not eat, drink, smoke, sniff.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Safety Data Sheet

NATURAL ETHYL ACETATE

Revision date: 02/21/2024

Product code: 241410US

Page 4 of 12

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

Specific end use(s)

Flavour

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No	Substance	ppm	mg/m ³	Category	Origin
141-78-6	Ethyl acetate	400	1400	TWA (8 h)	PEL
		400	1400	TWA (8 h)	REL
		400	1440	TWA (8 h)	ACGIH-2024

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
141-78-6	NATURAL ETHYL ACETATE			
Worker DNEL, long-term	inhalation	systemic	734 mg/m ³	
Worker DNEL, long-term	inhalation	local	734 mg/m ³	
Worker DNEL, acute	inhalation	systemic	1468 mg/m ³	
Worker DNEL, acute	inhalation	local	1468 mg/m ³	
Worker DNEL, long-term	dermal	systemic	63 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	367 mg/m ³	
Consumer DNEL, long-term	inhalation	local	367 mg/m ³	
Consumer DNEL, acute	inhalation	local	734 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	37 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	4,5 mg/kg bw/day	
Consumer DNEL, acute	inhalation	systemic	734 mg/m ³	

PNEC values

CAS No	Substance	Value
141-78-6	NATURAL ETHYL ACETATE	
Freshwater	0,24 mg/l	
Freshwater (intermittent releases)	1,65 mg/l	
Marine water	0,024 mg/l	
Freshwater sediment	1,15 mg/kg	
Marine sediment	0,115 mg/kg	
Secondary poisoning	200 mg/kg	
Micro-organisms in sewage treatment plants (STP)	650 mg/l	
Soil	0,148 mg/kg	

Exposure controls

Safety Data Sheet

NATURAL ETHYL ACETATE

Revision date: 02/21/2024

Product code: 241410US

Page 5 of 12



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fume/vapor/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

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.

Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing . .

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Thermal hazards

Flame-retardant protective clothing. Wear anti-static footwear and clothing .

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Liquid
Color:	colorless
Odor:	fruity
Melting point/freezing point:	-83 °C
Boiling point or initial boiling point and boiling range:	77 °C
Flammability:	not determined
Lower explosion limits:	2 vol. %
Upper explosion limits:	12,8 vol. %
Flash point:	-4 °C
Auto-ignition temperature:	427 °C
Decomposition temperature:	not determined
pH-Value (at 20 °C):	7
Viscosity / kinematic: (at 40 °C)	0,42 mm²/s
Water solubility: (at 20 °C)	83,1 g/l
Solubility in other solvents	not determined
Partition coefficient n-octanol/water:	0,73
Vapor pressure: (at 20 °C)	98,4 hPa
Vapor pressure: (at 50 °C)	380 hPa
Density (at 20 °C):	0,9 g/cm³

Safety Data Sheet

NATURAL ETHYL ACETATE

Revision date: 02/21/2024

Product code: 241410US

Page 6 of 12

Relative vapour density:
(at 20 °C) 3,04

Particle characteristics: not applicable

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) 0,45 mPa·s

10. Stability and reactivity

Reactivity

Highly flammable.

Chemical stability

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

No known hazardous reactions.

Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapors may form explosive mixtures with air.

Incompatible materials

No information available.

Hazardous decomposition products

No known hazardous decomposition products.

11. Toxicological information

Information on toxicological effects

Acute toxicity

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

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
141-78-6	NATURAL ETHYL ACETATE				
	oral	LD50 mg/kg 5620	Rat	REACH Dossier	OECD 401
	dermal	LD50 mg/kg >20000	Rabbit	REACH Dossier	-

Irritation and corrosivity

Serious eye damage/eye irritation: Causes serious eye irritation

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Repeated exposure may cause skin dryness or cracking.

Safety Data Sheet

NATURAL ETHYL ACETATE

Revision date: 02/21/2024

Product code: 241410US

Page 7 of 12

Sensitizing effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

Specific target organ toxicity (STOT) - single exposure

May cause drowsiness or dizziness (NATURAL ETHYL ACETATE)

Specific target organ toxicity (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.

Information on other hazards

Other information

This substance is classified as hazardous according to Regulation (EC) No 1272 (2008).

12. Ecological information

Ecotoxicity

The product is not: Ecotoxic.

CAS No	Components					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
141-78-6	NATURAL ETHYL ACETATE					
	Acute fish toxicity	LC50 230 mg/l	96 h	Pimephales promelas (fathead minnow)	REACH Dossier	US EPA method E03-05
	Acute algae toxicity	ErC50 mg/l >100	72 h	Desmodesmus subspicatus	REACH Dossier	OECD 201
	Acute crustacea toxicity	EC50 260 mg/l	48 h	Daphnia pulex (water flea)	REACH Dossier	
	Fish toxicity	NOEC 6,9 mg/l	32 d	Pimephales promelas (fathead minnow)	REACH Dossier	
	Crustacea toxicity	NOEC 2,4 mg/l	21 d	Daphnia magna (Big water flea)	REACH Dossier	

Persistence and degradability

The product has not been tested.

CAS No	Components			
	Method	Value	d	Source
	Evaluation			
141-78-6	NATURAL ETHYL ACETATE			
	OECD 301B	94%	28	REACH Dossier
	Readily biodegradable (according to OECD criteria).			
	OECD 301B	91%	8	REACH Dossier
	Readily biodegradable (according to OECD criteria).			
	OECD 301B	75%	4	REACH Dossier
	Readily biodegradable (according to OECD criteria).			

Bioaccumulative potential

The product has not been tested.

Safety Data Sheet

NATURAL ETHYL ACETATE

Revision date: 02/21/2024

Product code: 241410US

Page 8 of 12

Partition coefficient n-octanol/water

CAS No	Components	Log Pow
141-78-6	NATURAL ETHYL ACETATE	0,73

BCF

CAS No	Components	BCF	Species	Source
141-78-6	NATURAL ETHYL ACETATE	30	fish species (undefined)	REACH Dossier

Mobility in soil

The product has not been tested.

Results of PBT and vPvB assessment

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

The product has not been tested.

Endocrine disrupting properties

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

No information available.

Other adverse effects

No information available.

Further information

Avoid release to the environment.

13. Disposal considerations

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 - 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.

14. Transport information

Land transport (ADR/RID)

UN number or ID number:

UN 1173

UN proper shipping name:

ETHYL ACETATE

Transport hazard class(es):

3

Packing group:

II

Hazard label:

3



Classification Code:

F1

Limited quantity:

1 L

Excepted quantity:

E2

Transport category:

2

Safety Data Sheet

NATURAL ETHYL ACETATE

Revision date: 02/21/2024

Product code: 241410US

Page 9 of 12

Hazard No: 33
Tunnel restriction code: D/E

Other applicable information (land transport)
E2

Inland waterways transport (ADN)

UN number or ID number: UN 1173
UN proper shipping name: ETHYL ACETATE
Transport hazard class(es): 3
Packing group: II
Hazard label: 3



Classification Code: F1
Limited quantity: 1 L
Excepted quantity: E2
Other applicable information (inland waterways transport)
E2

Marine transport (IMDG)

UN number or ID number: UN 1173
UN proper shipping name: ETHYL ACETATE
Transport hazard class(es): 3
Packing group: II
Hazard label: 3



Special Provisions: -
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number: UN 1173
UN proper shipping name: ETHYL ACETATE
Transport hazard class(es): 3
Packing group: II
Hazard label: 3



Limited quantity Passenger: 1 L
Passenger LQ: Y341
Excepted quantity: E2
IATA-packing instructions - Passenger: 353
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Special precautions for user

Warning: Combustible liquid.

Safety Data Sheet

NATURAL ETHYL ACETATE

Revision date: 02/21/2024

Product code: 241410US

Page 10 of 12

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

15. Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Directive 2010/75/EU on industrial emissions:	100 % (900 g/l)
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Directive 2004/42/EC on VOC in paints and varnishes:	100 % (900 g/l)
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Information according to Directive 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS
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National regulatory information

Employment restrictions:	Observe employment restrictions for young people.
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Water hazard class (D):	1 - slightly hazardous to water
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Chemical Safety Assessment

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

16. Other information

Safety Data Sheet

NATURAL ETHYL ACETATE

Revision date: 02/21/2024

Product code: 241410US

Page 11 of 12

Abbreviations and acronyms

Flam. Liq: Flammable liquids
 Eye Irrit: Eye irritation
 STOT SE: Specific target organ toxicity single exposure
 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
 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>
 EC/EEC: European Community/European Economic Community
 EU: European Union
 M-factor: Multiplication factor
 IATA: International Air Transport Association
 DGR: Dangerous Goods Regulations
 ICAO: International Civil Aviation Organization
 TI: Technical Instructions
 VOC: volatile organic compound
 For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety
 assessment, chapter R.20 (Table of terms and abbreviations).

Relevant H statements (full text)

H225	Highly flammable liquid and vapor
H319	Causes serious eye irritation

Safety Data Sheet

NATURAL ETHYL ACETATE

Revision date: 02/21/2024

Product code: 241410US

Page 12 of 12

H336

May cause drowsiness or dizziness

EUH066

Repeated exposure may cause skin dryness or cracking.

Other data

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.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	For Flavour use for food and feed only	-	-	-	-	-	-	-	Flavour

LCS: Life cycle stages

SU: Sectors of use

PC: Product categories

PROC: Process categories

ERC: Environmental release categories

AC: Article categories

TF: Technical functions