

according to Regulation (EC) No 1907/2006

NATURAL ETHYL BUTYRATE

Revision date: 19.02.2024

Product code: 242700

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

1.1. Product identifier

NATURAL ETHYL BUTYRATE

NATURAL ETHYL BUTYRATE
01-2120118576-54-XXXX
105-54-4
203-306-4
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:	Safety Team	Telephone: + 49 2822 68561 0
E-mail:	safety-documentation@axxence.com	
Internet:	www.axxence.de	
Responsible Department:	Safety Management	
1.4. Emergency telephone	+49 2822 68561 99	

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Liq. 3; H226 Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

Warning

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word:

Pictograms:



Hazard statements

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.



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P243	Take action to prevent static discharges.	
P264	Wash hands thoroughly after handling.	
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.	
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.	
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.	
P370+P378	In case of fire: Use Extinguishing powder, Foam, Carbon dioxide (CO2) to extinguish.	
P403+P235	Store in a well-ventilated place. Keep cool.	
P501	Dispose of contents/container to organic waste.	

2.3. Other hazards

This substance is not listed as Substance of Very High Concern (SVHC) in the Candidate List according to REACH, Article 59. This substance is not identifed as SVHC (substance of very high concern) and is not subject to autorisation according to Annex XIV of REACH.

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	C6 H12 O2
Molecular weight:	116,16 g/mol

Relevant ingredients

CAS No	Chemical name			Quantity			
	EC No	EC No Index No REACH No					
	Classification (Regulation (EC) No 1272/2008)						
105-54-4	NATURAL ETHYL BUTYRATE			100 %			
	203-306-4 01-2120118576-54-XXXX						
	Flam. Liq. 3, Eye Irrit. 2; H226 H319						

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

Specific Conc. Limits, M-factors and ATE CAS No EC No Chemical name Quantity Specific Conc. Limits, M-factors and ATE 105-54-4 203-306-4 NATURAL ETHYL BUTYRATE 100 % inhalation: LC50 = >7380 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 LD50 = >2000

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

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 of water.



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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

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

5.2. Special hazards arising from the substance or mixture

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. Suppress gases/vapours/mists with water spray jet. 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

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

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

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 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

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can 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. Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.



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7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

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

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		
105-54-4	NATURAL ETHYL BUTYRATE					
Worker DNEL,	orker DNEL, long-term inhalation systemic 49,3 mg/m ³					
Worker DNEL,	long-term	dermal	systemic	2,33 mg/kg bw/day		
Consumer DN	Consumer DNEL, long-term inhalation systemic 7,4 mg/m ³					
Consumer DNEL, long-term		dermal	systemic	0,833 mg/kg bw/day		
Consumer DNEL, long-term		oral	systemic	0,833 mg/kg bw/day		

PNEC values

CAS No	Name of agent				
Environmenta	l compartment	Value			
105-54-4	NATURAL ETHYL BUTYRATE				
Freshwater		0,0297 mg/l			
Freshwater (ir	Freshwater (intermittent releases) 1 mg/l				
Marine water	Marine water 0,00297 mg/l				
Marine water (intermittent releases) 0,1 mg/l					
Freshwater sediment 0,173 mg/kg					
Marine sediment 0,0173 mg/kg					
Micro-organis	23,6 mg/l				
Soil		0,0171 mg/kg			

8.2. Exposure controls





Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

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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

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: Melting point/freezing poin	t.	-93 °C
Boiling point or initial boilir		121 °C
boiling range:		
Flammability:		not determined
Lower explosion limits:		1,5 vol. %
Upper explosion limits:		21,1 vol. % 25 °C
Flash point: Auto-ignition temperature:		25 C 440 °C
Decomposition temperature.		not determined
pH-Value (at 29 °C):		4,18
Viscosity / kinematic:		0,81 mm²/s
(at 15 °C)		
Water solubility:		6,2 g/l
(at 20 °C)		
Solubility in other solvents		
not determined Partition coefficient n-octa	nol/water	2,433
Vapour pressure:	nol/water.	2,433 17,5 hPa
(at 20 °C)		iri,o ili u
Vapour pressure:		79,6 hPa
(at 50 °C)		
Density (at 20 °C):		0,88 g/cm ³
Relative vapour density: (at 20 °C)		4,0
Particle characteristics:		not applicable
9.2. Other information		
	- where the the second scheme second	
Explosive properties	o physical hazard classes	
	plosive. not explosive according to EU A.14	
Oxidizing properties		
The product is not: oxi	dising.	
Other safety characterist	ics	
Evaporation rate:		not determined
Solvent content:		0%
Solid content:		0%
Viscosity / dynamic:		0,71 mPa·s
(at 15 °C)		



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SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable.

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

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

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		
105-54-4	NATURAL ETHYL BUTYRATE							
	oral	LD50 mg/kg	>2000	Rat	REACH Registration	OECD 423		
	dermal	LD50 mg/kg	>2000	Rat	REACH Registration	OECD 402		
	inhalation (1 h) vapour	LC50 mg/l	>7380	Rat	REACH Registration			

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.

Sensitising 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.

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.



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Other information

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

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
105-54-4	NATURAL ETHYL BUTYRATE						
	Acute fish toxicity	LC50 mg/l	>100	96 h	Danio rerio (zebrafish)	REACH Registration	OECD 203
	Acute algae toxicity	ErC50	100 mg/l		Desmodesmus subspicatus	REACH Registration	OECD 201
	Acute crustacea toxicity	EC50 mg/l	116,6		Daphnia magna (Big water flea)	REACH Registration	OECD 202
	Fish toxicity	NOEC mg/l	1483		fish species (undefined)	REACH Registration	
	Crustacea toxicity	NOEC mg/l	28833		Daphnia magna (Big water flea)	REACH Registration	

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name						
	Method	Value	d	Source			
	Evaluation						
105-54-4	NATURAL ETHYL BUTYRATE						
	OECD 301D	25%	7	REACH Registration			
	Moderately/partially biodegradable.						
	OECD 301D	53,18%	14	REACH Registration			
	Moderately/partially biodegradable.						
	OECD 301D	55,9%	28	REACH Registration			
	Moderately/partially biodegradable.						

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
105-54-4	NATURAL ETHYL BUTYRATE	2,43

BCF

CAS No	Chemical name	BCF	Species	Source
105-54-4	NATURAL ETHYL BUTYRATE	8	-	REACH Registration

12.4. Mobility in soil

The product has not been tested.

12.5. 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.

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects



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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) UN 1180 14.1. UN number or ID number: 14.2. UN proper shipping name: ETHYL BUTYRATE 14.3. Transport hazard class(es): 3 14.4. Packing group: Ш Hazard label: 3 F1 Classification code: Limited guantity: 5 L Excepted quantity: E1 Transport category: 3 Hazard No: 30 Tunnel restriction code: D/E Other applicable information (land transport) F1 Inland waterways transport (ADN) UN 1180 14.1. UN number or ID number: 14.2. UN proper shipping name: ETHYL BUTYRATE 14.3. Transport hazard class(es): 3 14.4. Packing group: Ш Hazard label: 3 Classification code: F1



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Limited quantity:	5 L		
Excepted quantity:	E1		
Other applicable information (inland wat			
Marine transport (IMDG)			
14.1. UN number or ID number:	UN 1180		
14.2. UN proper shipping name:	ETHYL BUTYRATE		
14.3. Transport hazard class(es):	3		
14.4. Packing group:	III		
Hazard label:	3		
Special Provisions:	-		
Limited quantity:	5 L		
Excepted quantity:	E1		
EmS:	F-E, S-D		
Air transport (ICAO-TI/IATA-DGR)			
14.1. UN number or ID number:	UN 1180		
14.2. UN proper shipping name:	ETHYL BUTYRATE		
14.3. Transport hazard class(es):	3		
<u>14.4. Packing group:</u> Hazard label:	 3		
Limited quantity Passenger:	10 L		
Passenger LQ:	Y344		
Excepted quantity: IATA-packing instructions - Passenger:	E1	355	
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger:		355 60 L	
IATA-max. quantity - Passenger. IATA-packing instructions - Cargo:		366	
IATA-max. quantity - Cargo:		220 L	
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	No		
14.6. Special precautions for user			
Warning: Combustible liquid.			
14.7. Maritime transport in bulk according to not applicable	to IMO instruments		
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regu	lations/legislation spe	ecific for the substance or mixture	
EU regulatory information			
Restrictions on use (REACH, annex XVII) Entry 3, Entry 40	:		
Directive 2010/75/EU on industrial emissions:	100 % (880 g/l)		
Directive 2004/42/EC on VOC in	100 % (880 g/l)		

paints and varnishes:



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Information according to Directive 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS					
Additional information						
To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC						
National regulatory information						
Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).						
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): 1,2,4,5,6,7,8,9,10,11,15,16.



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Abbreviations and acronyms

Flam. Lig: Flammable liquid Eye Irrit: Eye irritation 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 DNFL: Derived No Effect Level DMFL: 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: verv persistent, verv 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 For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). EC/EEC: European Community/European Economic Community EU: European Union M-factor: Multiplying factor IATA: International Air Transport Association DGR: Dangerous Goods Regulations ICAO: International Civil Aviation Organization TI: Technical Instructions VOC: volatile organic compound Relevant H and EUH statements (number and full text)



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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.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
	Manufacturing of: - Air care products - Perfumes, fragrances - Pharmaceuticals - Cosmetics, personal care products - Flavouring Substances - Other	-	-	-	-	-	-	-	

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use PROC: Process categories AC: Article categories