

according to Regulation (EC) No 1907/2006

NATURAL N-BUTYL BUTYRATE

Revision date: 07.08.2023

Product code: 218600WW

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

1.1. Product identifier

NATURAL N-BUTYL BUTYRATE

Substance name:	NATURAL N-BUTYL BUTYRATE
CAS No:	109-21-7
Index No:	607-031-00-4
EC No:	203-656-8

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	+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 Aquatic Chronic 2; H411

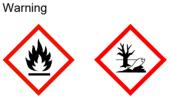
Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word:

Pictograms:



Hazard statements

H226	Flammable liquid and vapour.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 smoking.	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
•	
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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Safety Data Sheet

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Revision date: 07.08.2023 Product code: 218600WW P243 Take action to prevent static discharges. P273 Avoid release to the environment. 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. P370+P378 In case of fire: Use Water spray jet, Extinguishing powder, Carbon dioxide (CO2), alcohol resistant foam to extinguish. P391 Collect spillage. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container to .

2.3. Other hazards

This substance has been listed as SVHC (substance of very high concern) in the Candidate List according to Article 59 of REACH. This substance is identified as SVHC (substance of very high concern) and is subject to autorisation according to Annex XIV of REACH.

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	C8 H16 O2
Molecular weight:	144,21

Hazardous components

CAS No	Chemical name				
	EC No	C No Index No REACH No			
Classification (Regulation (EC) No 1272/2008)					
109-21-7	NATURAL N-BUTYL BUTYRATE				
	203-656-8 607-031-00-4				
	Flam. Liq. 3, Aquatic Chronic 2; H226 H411				

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		
109-21-7	203-656-8 NATURAL N-BUTYL BUTYRATE		100 %
dermal: LD50 = >5000 mg/kg; oral: LD50 = 9518 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 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.



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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2), Foam, Extinguishing powder.

Unsuitable extinguishing media

Water.

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. 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.

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

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



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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

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.

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:	Eldaid	
Odour:	fruity	
Melting point/freezing point:		-92 °C
Boiling point or initial boiling point and		166 °C
boiling range:		
Flammability:		not determined
Lower explosion limits:		1 vol. %
Upper explosion limits:		not determined
Flash point:		52 °C
Auto-ignition temperature:		390 °C
Decomposition temperature:		not determined
pH-Value:		not determined
Water solubility:		0,628 g/L
(at 20 °C)		
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		2,16
Vapour pressure:		1,32 hPa
(at 20 °C)		



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Vapour pressure:	9,63 hPa			
(at 50 °C)				
Density (at 20 °C): Relative vapour density:	0,87 g/cm³ 5			
(at 20 °C)	5			
9.2. Other information				
Information with regard to physical	I hazard classes			
Explosive properties				
The product is not: Explosive. no	t 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%			
10.1. Reactivity Flammable.				
10.2. Chemical stability				
	age at normal ambient temperatures.			
10.3. Possibility of hazardous reaction				
No known hazardous reactions.				
10.4. Conditions to avoid				
Keep away from sources of heat mixtures with air.	(e.g. hot surfaces), sparks and open flames. Vapours can form	n explosive		
10.5. Incompatible materials				
No information available.				
10.6. Hazardous decomposition products				
No known hazardous decomposi	ition products.			
SECTION 11: Toxicological information	ation			
11.1. Information on hazard classes as	s defined in Regulation (EC) No 1272/2008			
Acute toxicity				

CAS No	Chemical name	Chemical name					
	Exposure route	Dose		Species	Source	Method	
109-21-7	NATURAL N-BUTYL BUTYRATE						
	oral	LD50 mg/kg	9518	Rabbit	REACH registration		
	dermal	LD50 mg/kg	>5000	Rabbit	REACH registration		

Irritation and corrosivity

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

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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.

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
109-21-7	NATURAL N-BUTYL BUTYRATE						
	Acute algae toxicity	ErC50 mg/l	36,7		Pseudokirchneriella subcapitata	REACH registration	OECD 201
	Acute crustacea toxicity	EC50 mg/l	8,86		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				
109-21-7	NATURAL N-BUTYL BUTYRATE				
	OECD 301 F	53%	28	REACH registration	
	Not readily biodegradable (according to OECD criteria)				
	OECD 301 F	48%	10	REACH registration	
	Not readily biodegradable (according to OECD criteria	a)			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
109-21-7	NATURAL N-BUTYL BUTYRATE	2,16

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. No information available.

12.7. Other adverse effects

No information available.



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Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. 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

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 3272			
14.2. UN proper shipping name:	ESTERS, N.O.S.			
14.3. Transport hazard class(es):	3			
14.4. Packing group:	III			
Hazard label:	3			
Classification code:	F1			
Special Provisions:	274 601			
Limited quantity:	5 L			
Excepted quantity:	E1			
Transport category:	3			
Hazard No:	30			
Tunnel restriction code:	D/E			
Other applicable information (land transport)				
E1				
Inland waterways transport (ADN)				
14.1. UN number or ID number:	UN 3272			
14.2. UN proper shipping name:	ESTERS, N.O.S.			
14.3. Transport hazard class(es):	3			
14.4. Packing group:	III			
Hazard label:	3			



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	3	
Classification code:	F1	
Special Provisions:	274 601	
Limited quantity:	5 L	
Excepted quantity:	E1	
Other applicable information (inland wa	terways transport)	
E1		
Marine transport (IMDG)		
14.1. UN number or ID number:	UN 3272	
14.2. UN proper shipping name:	ESTERS, N.O.S.	
14.3. Transport hazard class(es):	3	
14.4. Packing group:		
Hazard label:	3	
Special Provisions:	223 274	
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 3272	
14.2. UN proper shipping name:	ESTERS, N.O.S.	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	III	
Hazard label:	3	
	3	
Special Provisions:	A3	
Limited quantity Passenger:	10 L	
Passenger LQ:	Y344	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:		355
IATA-max. quantity - Passenger:		60 L
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 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



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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



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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).

Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.

H411 Toxic to aquatic life with long lasting effects.

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.