

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

#### **NATURAL ETHYL 2-METHYLBUTYRATE**

Revision date: 31.01.2022 Product code: 244300 Page 1 of 11

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

#### 1.1. Product identifier

NATURAL ETHYL 2-METHYLBUTYRATE

Substance name: NATURAL ETHYL 2-METHYLBUTYRATE

REACH Registration Number: 01-2119969445-25-XXXX

CAS No: 7452-79-1 EC No: 231-225-4

### 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

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

## Regulation (EC) No 1272/2008

Signal word: Warning

Pictograms:



#### **Hazard statements**

H226 Flammable liquid and vapour.

# **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.

P243 Take action to prevent static discharges.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing



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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 Extinguishing powder / Carbon dioxide (CO2) / Foam to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to .

### 2.3. Other hazards

No information available.

## **SECTION 3: Composition/information on ingredients**

## 3.1. Substances

Sum formula: C7 H14 O2 Molecular weight: 130,19

### **Hazardous components**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (Regulation (EC) No 1272/2008)				
7452-79-1	NATURAL ETHYL 2-METHYLBUTYRATE				
	231-225-4 01-2119969445-25-XXXX				
	Flam. Liq. 3; H226				

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. L	Specific Conc. Limits, M-factors and ATE					
7452-79-1	231-225-4	NATURAL ETHYL 2-METHYLBUTYRATE	100 %				
	inhalation: LC5 mg/kg	0 = 5967 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: 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

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.

# **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

## Suitable extinguishing media

Carbon dioxide (CO2), Foam, Extinguishing powder.



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### 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.

## 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



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## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

### **DNEL/DMEL values**

CAS No	Name of agent							
DNEL type		Exposure route	Effect	Value				
7452-79-1	NATURAL ETHYL 2-METHYLBUTYRATE							
Worker DNEL,	long-term	inhalation	systemic	52,08 mg/m³				
Worker DNEL, long-term		dermal	systemic	6,67 mg/kg bw/day				
Consumer DNEL, long-term		inhalation	systemic	12,95 mg/m³				
Consumer DNEL, long-term		dermal	systemic	3,33 mg/kg bw/day				
Consumer DN	Consumer DNEL, long-term		systemic	3,33 mg/kg bw/day				

### **PNEC** values

CAS No	Name of agent					
Environmental	Environmental compartment Value					
7452-79-1 NATURAL ETHYL 2-METHYLBUTYRATE						
Freshwater 0,026 mg/l						
Marine water 0,0026 mg/l						
Freshwater sediment 0,392						
Marine sedime	0,0392 mg/kg					
Micro-organism	0,3 mg/l					
Soil	Soil 0					

# 8.2. Exposure controls





Print date: 12.05.2023

## 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 Butyl caoutchouc (butyl rubber)

## Skin protection

Use of protective clothing.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection.



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### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state: Liquid

Colour:

Odour: fruity

Melting point/freezing point: <-20 °C
Boiling point or initial boiling point and 133 °C

boiling range:

Flammability: not applicable

not applicable

Lower explosion limits: not determined Upper explosion limits: not determined

Flash point: 26 °C

Auto-ignition temperature: 407 °C

Decomposition temperature: not determined
pH-Value: not determined

Water solubility: 0,6 g/L

(at 20 °C)

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: 2,158
Vapour pressure: 11,7 hPa

(at 20 °C)

Vapour pressure: 50,1 hPa

(at 50 °C)

Density (at 20 °C): 0,87 g/cm³
Relative vapour density: 4,5

(at 20 °C)

### 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: 0,831 mPa·s

(at 20 °C)

# **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.



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### 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				
7452-79-1	NATURAL ETHYL 2-METHYLBUTYRATE									
	oral	LD50 >20 mg/kg	000	Rat	REACH registration	OECD 423				
dermal		LD50 >20 mg/kg	000	Rat	REACH registration	OECD 402				
	inhalation (4 h) vapour LC50 5967			Rat	REACH registration	OECD 403				

### 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

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

The product is not: Ecotoxic.



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CAS No	Chemical name									
	Aquatic toxicity	Dose	Dose		Species	Source	Method			
7452-79-1	NATURAL ETHYL 2-METHYLBUTYRATE									
	Acute fish toxicity	LC50 mg/l	>100	l .	Cyprinus carpio (Common Carp)	REACH registration	OECD 203			
	Acute algae toxicity	ErC50 mg/l	>100		Pseudokirchneriella subcapitata	REACH registration	OECD 201			
	Acute crustacea toxicity	EC50 mg/l	>61,6		Daphnia magna (Big water flea)	REACH registration	EU Method C.2			
	Crustacea toxicity	NOEC	1,3 mg/l		Daphnia magna (Big water flea)	REACH registration	OECD 211			

## 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name								
	Method	Value		d	Source				
	Evaluation				-				
7452-79-1	NATURAL ETHYL 2-METHYLBUTYRATE								
	EU Method C.4-E	66		28	REACH registration				
	Readily biodegradable (according to OECD criteria).								
	EU Method C.4-E	55		14	REACH registration				
	Readily biodegradable (according to OECD criteria).								
	EU Method C.4-E	39		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
7452-79-1	NATURAL ETHYL 2-METHYLBUTYRATE	2,158

# 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.

#### **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



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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: UN 3272

14.2. UN proper shipping name: ESTERS, N.O.S.

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard 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)

Ε1

### 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):314.4. Packing group:IIIHazard label:3



Classification code: F1
Special Provisions: 274 601
Limited quantity: 5 L
Excepted quantity: E1

Other applicable information (inland waterways 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):



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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):314.4. Packing group:IIIHazard label:3



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Y344

Excepted quantity:

E1

IATA-packing instructions - Passenger:355IATA-max. quantity - Passenger:60 LIATA-packing instructions - Cargo:366IATA-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

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

2010/75/EU (VOC): 100 % (870 g/l) 2004/42/EC (VOC): 100 % (870 g/l)

Information according to 2012/18/EU P5c FLAMMABLE LIQUIDS

(SEVESO III):

**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



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### 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): 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

#### 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

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

# Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.

## **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.



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## 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