

according to UN GHS (ST/SG/AC.10/11/Rev.10)

Revision date: 11.08.2022

Product code: 217500WW

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

# 1.1. Product identifier

NATURAL ISOBUTYL ACETATE

Substance name: CAS No: NATURAL ISOBUTYL ACETATE 110-19-0

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

### Use of the substance/mixture

For Flavour use for food and feed only

# 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

#### UN GHS (ST/SG/AC.10/11/Rev.10)

Flammable liquid: Flam. Liq. 2 Specific target organ toxicity - single exposure: STOT SE 3 (narcotic effects) Hazardous to the aquatic environment: Aquatic Acute 3

# 2.2. Label elements

UN GHS (ST/SG/AC.10/11/Rev.10	)
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Signal word: Danger

Pictograms:



# Hazard statements

H225	Highly flammable liquid and vapour.
H333	May be harmful if inhaled.
H336	May cause drowsiness or dizziness.
H402	Harmful to aquatic life.

## **Precautionary statements**

recautionaly ste	atements
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.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.



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P271	Use only outdoors or in a well-ventilated area.	
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.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P317	Get medical help.	
P319	Get medical help if you feel unwell.	
P370+P378	In case of fire: Use alcohol resistant foam/Carbon dioxide (CO2) to extinguish.	
P233	Keep container tightly closed.	
P403+P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	
P501	Dispose of contents/container to organic waste.	

# 2.3. Other hazards

No information available.

## **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
	Classification (UN GHS (ST/SG/AC.10/11/Rev.10))	
110-19-0	NATURAL ISOBUTYL ACETATE	100 %
	Flam. Liq. 2, STOT SE 3, Aquatic Acute 3; H225 H336 H402	

### **SECTION 4: First aid measures**

### 4.1. 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

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. In case of eye irritation consult an ophthalmologist.

## 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

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



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## 5.2. Special hazards arising from the substance or mixture

Highly 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

### 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

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

#### 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.

# 7.2. 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 exhaustion 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.

### Hints on joint storage

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

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

### 8.1. Control parameters



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## Occupational exposure limit values

CAS No	Name of agent	ppm	mg/m³	fib/cm³	Category	Origin
110-19-0	Isobutyl acetate	50	241		TWA (8 h)	
		150	723		STEL (15 min)	

# 8.2. Exposure controls



### Appropriate engineering controls

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

# Individual protection measures, such as personal protective equipment

### Eye/face protection

Wear eye protection/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) (0,7mm)

### Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and 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: Colour: Odour:	Liquid colourless fruity	
Melting point/freezing point:	,	-99 °C
Boiling point or initial boiling point and boiling range:		117 °C
Flammability:		not applicable not applicable
Lower explosion limits:		1,25 vol. %
Upper explosion limits:		10,5 vol. %
Flash point:		22 °C
Auto-ignition temperature:		430 °C
Decomposition temperature:		not determined
pH-Value (at 20 °C):		6,7
Viscosity / kinematic: (at 20 °C)		0,8 mm²/s
Water solubility: (at 20 °C)		5,6 g/l
Solubility in other solvents not determined		



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Partition coefficient n-octanol/water:	2,3	
Vapour pressure:	19,9 hPa	
(at 20 °C)	97.7 bDo	
Vapour pressure: (at 50 °C)	87,7 hPa	
Density (at 20 °C):	0,87 g/cm³	
Relative vapour density:	4,01	
(at 20 °C)		
9.2. Other information		
Information with regard to physical hazard cla	asses	
Explosive properties		
The product is not: Explosive. not explosive Self-ignition temperature	according to EU A. 14	
Solid:	not applicable	
Gas:	not applicable	
Oxidizing properties		
Not oxidising.		
Other safety characteristics		
Evaporation rate:	not determined	
Solvent content:	0%	
Solid content: Viscosity / dynamic:	0% 0.7 mPa⋅s	
(at 20 °C)	5,7 m a 3	

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Highly 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 toxicological effects

# Acute toxicity

May be harmful if inhaled.



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CAS No	Chemical name	Chemical name					
	Exposure route	Dose		Species	Source	Method	
110-19-0	NATURAL ISOBUTYL A	NATURAL ISOBUTYL ACETATE					
	oral	LD50 mg/kg	13413	Rat	REACH registration	OECD 401	
	dermal	LD50 mg/kg	>17400	Rabbit	REACH registration	OECD 402	
	inhalation (4 h) vapour	LC50	30 mg/l	Rat	REACH registration	OECD 403	

#### Irritation and corrosivity

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

May cause drowsiness or dizziness. (NATURAL ISOBUTYL ACETATE)

### 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.

#### Additional information on tests

Classification according to Regulation (EC) No 1272/2008 [CLP]: Health hazard properties

# 11.2. Information on other hazards

Endocrine disrupting properties

No information available.

### **SECTION 12: Ecological information**

### 12.1. Toxicity

#### The product is not: Ecotoxic.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
110-19-0	NATURAL ISOBUTYL ACETATE						
	Acute fish toxicity	LC50 mg/l	16,6		Oryzias latipes (Ricefish)	REACH registration	OECD 203
	Acute algae toxicity	ErC50	397 mg/l	1	Pseudokirchneriella subcapitata	REACH registration	OECD 201
	Acute crustacea toxicity	EC50 mg/l	24,6		Daphnia magna (Big water flea)	REACH registration	OECD 202
	Algae toxicity	NOEC	95 mg/l	-	Pseudokirchneriella subcapitata		
	Crustacea toxicity	NOEC mg/l	23,2		Daphnia magna (Big water flea)	REACH registration	OECD 211
	Acute bacteria toxicity	EC50 mg/l()	1886	0 h	Pseudomonas putida	REACH registration	DIN 38412 TI 27

# 12.2. Persistence and degradability

The product has not been tested.



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CAS No	Chemical name				
	Method	Value		d	Source
	Evaluation				
110-19-0	0 NATURAL ISOBUTYL ACETATE				
	OECD 301D	60%		5	REACH registration
	Readily biodegradable (according to OECD criteria).				
	OECD 301D	74%		10	REACH registration
	Readily biodegradable (according to OECD criteria).				
	OECD 301D	81%		20	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
110-19-0	NATURAL ISOBUTYL ACETATE	2,3

# BCF

CAS No	Chemical name	BCF	Species	Source
110-19-0	NATURAL ISOBUTYL ACETATE	15,3		REACH registration

# 12.4. Mobility in soil

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.

## Contaminated packaging

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

# **SECTION 14: Transport information**

# Marine transport (IMDG)

<u>14.1. UN number or ID number:</u>	UN 1213
14.2. UN proper shipping name:	ISOBUTYL ACETATE
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
	3
Special Provisions:	-
Limited quantity:	1 L
Excepted quantity:	E2



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EmS:	F-E, S-D					
Air transport (ICAO-TI/IATA-DGR)						
14.1. UN number or ID number:	UN 1213					
14.2. UN proper shipping name:	ISOBUTYL ACETATE					
14.3. Transport hazard class(es):	3					
14.4. Packing group:	II					
Hazard label:	3					
Limited quantity Passenger:	1 L					
Passenger LQ:	Y341					
Excepted quantity:	E2					
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger:		353				
IATA-max. quantity - Passenger. IATA-packing instructions - Cargo:		5 L 364				
IATA-packing instituctions - Cargo: IATA-max. quantity - Cargo:		504 60 L				
14.5. Environmental hazards						
ENVIRONMENTALLY HAZARDOUS:	No					
<b>14.6. Special precautions for user</b> Warning: Combustible liquid.						
14.7. Maritime transport in bulk according to	o IMO instruments					
not applicable						
SECTION 15: Regulatory information						
National regulatory information						
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).					
SECTION 16: Other information						

# Changes

This data sheet contains changes from the previous version in section(s): 2,8.



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# Abbreviations and acronyms ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods

(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 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: 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

# 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.