

Safety Data Sheet

according to Regulation (EC) No 1907/2006

NATURAL ISOBUTYL ACETATE

Revision date: 11.08.2022 Product code: 217500 Page 1 of 11

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

1.1. Product identifier

NATURAL ISOBUTYL ACETATE

Substance name: NATURAL ISOBUTYL ACETATE

CAS No: 110-19-0 Index No: 607-026-00-7 EC No: 203-745-1

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: 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. 2; H225 STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word: Danger

Pictograms:





Hazard statements

H225 Highly flammable liquid and vapour. H336 May cause drowsiness or dizziness.

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.



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P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.

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.

P312 Call a POISON CENTER/doctor 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 .

Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

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

Hazardous components

CAS No	Chemical name	Chemical name					
	EC No Index No REACH No						
	Classification (Regulation (EC) No 1272/2008)						
110-19-0	NATURAL ISOBUTYL ACETATE						
	203-745-1 607-026-00-7						
	Flam. Liq. 2, STOT SE 3; H225 H336 EUH066						

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				
110-19-0	203-745-1	NATURAL ISOBUTYL ACETATE	100 %			
	inhalation: LC50 = 30 mg/l (vapours); dermal: LD50 = >17400 mg/kg; oral: LD50 = 13413 mg/kg					

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.



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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

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



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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.

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

Occupational exposure limit values

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

DNEL/DMEL values

CAS No	Name of agent			
DNEL type		Exposure route	Effect	Value
110-19-0	NATURAL ISOBUTYL ACETATE			
Worker DNEL,	long-term	inhalation	systemic	300 mg/m³
Worker DNEL,	acute	inhalation	systemic	600 mg/m³
Worker DNEL,	long-term	inhalation	local	300 mg/m³
Worker DNEL,	acute	inhalation	local	600 mg/m³
Consumer DN	EL, long-term	inhalation	systemic	35,7 mg/m³
Consumer DN	EL, acute	inhalation	systemic	300 mg/m³
Consumer DN	EL, long-term	inhalation	local	35,7 mg/m³
Consumer DN	EL, acute	inhalation	local	300 mg/m³
Worker DNEL,	long-term	dermal	systemic	10 mg/kg bw/day
Worker DNEL,	acute	dermal	local	10 mg/person/day
Consumer DN	Consumer DNEL, long-term		systemic	5 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	5 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	5 mg/kg bw/day
Consumer DN	EL, acute	oral	systemic	5 mg/kg bw/day



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PNEC values

CAS No	Name of agent					
Environmenta	Environmental compartment					
110-19-0 NATURAL ISOBUTYL ACETATE						
Freshwater						
Freshwater (i	0,34 mg/l					
Marine water		0,017 mg/l				
Freshwater s	0,877 mg/kg					
Marine sedim	0,0877 mg/kg					
Micro-organis	200 mg/l					
Soil	0,075 mg/kg					

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/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: Liquid
Colour: colourless
Odour: fruity

Melting point/freezing point:

Boiling point or initial boiling point and

117 °C

boiling range: Flammability

Solid/liquid: not applicable
Gas: not applicable
Lower explosion limits: 1,25 vol. %
Upper explosion limits: 10,5 vol. %
Flash point: 22 °C
Auto-ignition temperature: 430 °C



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Decomposition temperature: not determined pH-Value (at 20 °C): 6,7 Viscosity / kinematic: 0,8 mm²/s

(at 20 °C)

Water solubility: 5,6 g/L

(at 20 °C)

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: 2,3
Vapour pressure: 19,9 hPa

(at 20 °C)

Vapour pressure: 87,7 hPa

(at 50 °C)

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 classes

Explosive properties

The product is not: Explosive. not explosive according to EU A.14

Self-ignition temperature

Solid: not applicable
Gas: not applicable

Oxidizing properties Not oxidising.

Other safety characteristics

Evaporation rate: not determined Solvent content: 0% Solid content: 0% Viscosity / dynamic: 0,7 mPa·s

(at 20 °C)

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 hazard classes as defined in Regulation (EC) No 1272/2008



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Acute toxicity

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

CAS No	Chemical name								
	Exposure route	Dose		Species	Source	Method			
110-19-0	NATURAL ISOBUTYL AC	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

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

May cause drowsiness or dizziness. (NATURAL ISOBUTYL ACETATE)

STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

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	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
110-19-0	NATURAL ISOBUTYL AC	ETATE							
	Acute fish toxicity	LC50 mg/l	16,6	96 h	Oryzias latipes (Ricefish)	REACH registration	OECD 203		
	Acute algae toxicity	ErC50	397 mg/l	72 h	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	3 d	Pseudokirchneriella subcapitata				
	Crustacea toxicity	NOEC mg/l	23,2	21 d	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	0-19-0 NATURAL ISOBUTYL ACETATE								
	OECD 301D 60% 5 REAC		REACH registration						
	Readily biodegradable (according to OECD	criteria).	-						
	OECD 301D 74% 10 REACH regist								
	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.

12.5. 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

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.



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SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1213

14.2. UN proper shipping name: ISOBUTYL ACETATE

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1
Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E
Other applicable information (land transport)

E2

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1213

14.2. UN proper shipping name: ISOBUTYL ACETATE

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1
Limited quantity: 1 L
Excepted quantity: E2

Other applicable information (inland waterways transport)

E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 1213

14.2. UN proper shipping name: ISOBUTYL ACETATE

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions:

Limited quantity:

Excepted quantity:

E2

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: |



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Hazard label: 3



Limited quantity Passenger: 1 L
Passenger LQ: Y341
Excepted quantity: E2

IATA-packing instructions - Passenger:353IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:364IATA-max. quantity - Cargo:60 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

(SEVESO III):

P5c FLAMMABLE LIQUIDS

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

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



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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)

H225 Highly flammable liquid and vapour.H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

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
1	For Flavour use for food	-	-	-	-	-	-	-	Flavour
	and feed only								

PC: Product categories
ERC: Environmental release categories

PROC: Process categories
AC: Article categories

SU: Sectors of use

TF: Technical functions

LCS: Life cycle stages