

according to Regulation (EC) No 1907/2006

NATURAL ISOBUTYL ALCOHOL

Revision date: 24.05.2023

Product code: 217900

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

1.1. Product identifier

NATURAL ISOBUTYL ALCOHOL

NATURAL ISOBUTYL ALCOHOL
78-83-1
603-108-00-1
201-148-0

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:	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 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation	(EC)	No 1	1272/2008
rogalation			

 Signal word:
 Danger

 Pictograms:
 Image: Image for the second s

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

P210



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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.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
protection.	
P302+P352	IF ON SKIN: Wash with plenty of Water and soap.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with
water or shower.	
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
present and easy to	
P310	Immediately call a POISON CENTER/doctor.
P370+P378	In case of fire: Use Carbon dioxide (CO2) / alcohol resistant foam 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 .

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	C4 H10 O
Molecular weight:	74,12

Hazardous components

CAS No	No Chemical name				
	EC No Index No REACH No				
Classification (Regulation (EC) No 1272/2008)					
78-83-1	NATURAL ISOBUTYL ALCOHOL				
	201-148-0 603-108-00-1				
	Flam. Liq. 3, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, STOT SE 3; H226 H315 H318 H335 H336				

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			
78-83-1	201-148-0	NATURAL ISOBUTYL ALCOHOL	100 %	
	inhalation: LC5	0 = 24,6 mg/l (vapours); dermal: LD50 = 3400 mg/kg; oral: LD50 = >2830 mg/kg		

SECTION 4: First aid measures

4.1. Description of first aid measures



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After inhalation

Provide fresh air. Medical treatment necessary.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of of water. Rinse mouth immediately and drink plenty 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.

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

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

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



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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. 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

DNEL/DMEL values

CAS No	Name of agent				
DNEL type Exposure route Effect Value					
78-83-1	NATURAL ISOBUTYL ALCOHOL	-			
Worker DNEL, long-term inhalation systemic 310 mg/m ³					
Consumer DNE	EL, long-term	inhalation	systemic	55 mg/m³	

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

Suitable eye protection: goggles.

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 NBR (Nitrile rubber) (0,4mm)



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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 point: Boiling point or initial boiling point and boiling range:		-108 °C 108 °C
Flammability:		not determined
Lower explosion limits:		1,4 vol. %
Upper explosion limits:		11 vol. %
Flash point:		27 °C
Auto-ignition temperature:		430 °C
Decomposition temperature:		not determined
pH-Value:		7
Viscosity / kinematic: (at 20 °C)		4 mm²/s
Water solubility: (at 20 °C)		85 g/L
Solubility in other solvents not determined		
Partition coefficient n-octanol/water:		0,76
Vapour pressure: (at 20 °C)		11,8 hPa
Vapour pressure: (at 50 °C)		73,4 hPa
Density (at 20 °C):		0,80 g/cm ³
Relative vapour density: (at 20 °C)		2,55

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:	3,1 mPa·s
(at 20 °C)	

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable.

10.2. Chemical stability

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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							
78-83-1	NATURAL ISOBUTYL ALCOHOL							
	oral	LD50 mg/kg	>2830	Rat	REACH Registration	OECD 401		
	dermal	LD50 mg/kg	3400	Rabbit	GESTIS			
	inhalation (4 h) vapour	LC50	24,6 mg/l	Rat	REACH REgistration			

Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

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 respiratory irritation. (NATURAL ISOBUTYL ALCOHOL) May cause drowsiness or dizziness. (NATURAL ISOBUTYL ALCOHOL)

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.

Further 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.



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
78-83-1	NATURAL ISOBUTYL ALCOHOL						
	Acute fish toxicity LC50 1430 96 h Pimephales promelas RE mg/l (fathead minnow)					REACH Dossier	
	Acute algae toxicity	ErC50	593 mg/l		Pseudokirchneriella subcapitata	REACH Dossier	OECD 201
	Acute crustacea toxicity	EC50 mg/l	1100	48 h	Daphnia pulex (water flea)	REACH Dossier	ASTM E1193-97
	Crustacea toxicity	NOEC	20 mg/l		Daphnia magna (Big water flea)	REACH Dossier	

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
78-83-1	NATURAL ISOBUTYL ALCOHOL				
	OECD 301	74%	28	REACH Dossier	
	OECD 301	14%	5	REACH Dossier	
	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
78-83-1	NATURAL ISOBUTYL ALCOHOL	0,76

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

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

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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 - 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 1212
14.2. UN proper shipping name:	ISOBUTANOL (ISOBUTYL ALCOHOL)
14.3. Transport hazard class(es):	3
14.4. Packing group:	111
Hazard label:	3
Classification code:	F1
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	30
Tunnel restriction code:	D/E
Other applicable information (land transp E1	ort)
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 1212
14.2. UN proper shipping name:	ISOBUTANOL (ISOBUTYL ALCOHOL)
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3
Classification code:	F1
Limited quantity:	5 L
Excepted quantity:	E1
Other applicable information (inland water E1	rways transport)
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 1212
14.2. UN proper shipping name:	ISOBUTANOL (ISOBUTYL ALCOHOL)
14.3. Transport hazard class(es):	3
14.4. Packing group:	111
Hazard label:	3



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Cevision uale. 24.00.2020	Product code: 21	7900	Page 9 of				
Special Provisions:	-						
Limited quantity:	5 L						
Excepted quantity: EmS:	E1 F-E, S-D						
	г-е, 3- 0						
Air transport (ICAO-TI/IATA-DGR)	UN 1212						
<u>14.1. UN number or ID number:</u> 14.2. UN proper shipping name:	ISOBUTANOL						
14.3. Transport hazard class(es):	3						
14.4. Packing group:	III						
Hazard label:	3						
Limited quantity Passenger:	10 L						
Passenger LQ:	Y344						
Excepted quantity:	E1						
IATA-packing instructions - Passenger:	355						
IATA-max. quantity - Passenger: IATA-packing instructions - Cargo:	60 L 366						
IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	220 I	_					
4.5. Environmental hazards							
ENVIRONMENTALLY HAZARDOUS:	No						
4.6. Special precautions for user							
4.6. Special precautions for user Warning: Combustible liquid.							
4.6. Special precautions for user Warning: Combustible liquid.							
 4.6. Special precautions for user Warning: Combustible liquid. 4.7. Maritime transport in bulk according to not applicable 							
 4.6. Special precautions for user Warning: Combustible liquid. 4.7. Maritime transport in bulk according to not applicable ECTION 15: Regulatory information 	IMO instruments						
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 4.6. Special precautions for user Warning: Combustible liquid. 4.7. Maritime transport in bulk according to not applicable SECTION 15: Regulatory information 5.1. Safety, health and environmental regulation EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3, Entry 40 2010/75/EU (VOC): 2004/42/EC (VOC): 2004/42/EC (VOC): Information according to 2012/18/EU (SEVESO III): National regulatory information Employment restrictions: 	IMO instruments ations/legislation specific f 100 % (800 g/l) 100 % (800 g/l) P5c FLAMMABLE LIQUID Observe restrictions to em work protection guideline' (S ployment for juveniles according to the 'juvenile '94/33/EC).					
 4.6. Special precautions for user Warning: Combustible liquid. 4.7. Maritime transport in bulk according to not applicable SECTION 15: Regulatory information 5.1. Safety, health and environmental regul EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3, Entry 40 2010/75/EU (VOC): 2004/42/EC (VOC): lnformation according to 2012/18/EU (SEVESO III): National regulatory information Employment restrictions: Water hazard class (D): 	IMO instruments ations/legislation specific f 100 % (800 g/l) 100 % (800 g/l) P5c FLAMMABLE LIQUID Observe restrictions to em	S ployment for juveniles according to the 'juvenile '94/33/EC).	2				
 4.6. Special precautions for user Warning: Combustible liquid. 4.7. Maritime transport in bulk according to not applicable SECTION 15: Regulatory information 5.1. Safety, health and environmental regulation EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3, Entry 40 2010/75/EU (VOC): 2004/42/EC (VOC): lnformation according to 2012/18/EU (SEVESO III): National regulatory information Employment restrictions: 	IMO instruments ations/legislation specific f 100 % (800 g/l) 100 % (800 g/l) P5c FLAMMABLE LIQUID Observe restrictions to em work protection guideline' (1 - slightly hazardous to wa	S ployment for juveniles according to the 'juvenile '94/33/EC). ater	2				

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



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(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 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. H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. **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
1	For Flavour use for food	-	-	-	-	-	-	-	Flavour

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use PROC: Process categories

AC: Article categories