

according to Regulation (EC) No 1907/2006

NATURAL N-BUTYL ALCOHOL

Revision date: 10.02.2023 Product code: 217800 Page 1 of 12

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

1.1. Product identifier

NATURAL N-BUTYL ALCOHOL

Substance name: NATURAL N-BUTYL ALCOHOL

CAS No: 71-36-3 Index No: 603-004-00-6 EC No: 200-751-6

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: 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

Regulation (EC) No 1272/2008

Flam. Liq. 3; H226 Acute Tox. 4; H302 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 1272/2008

Signal word: Danger

Pictograms:







Hazard statements

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.



according to Regulation (EC) No 1907/2006

NATURAL N-BUTYL ALCOHOL

Revision date: 10.02.2023 Product code: 217800 Page 2 of 12

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.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

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

protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

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 do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

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: C4 H10 O Molecular weight: 74,12 g/mol

Relevant ingredients

CAS No	Chemical name	Chemical name				
	EC No	Index No	REACH No			
	Classification (Regulation (EC) No 1272/2008)					
71-36-3	NATURAL N-BUTYL ALCOHOL					
	200-751-6	603-004-00-6				
	Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, STOT SE 3; H226 H302 H315 H318 H335 H336					

Full text of H and EUH statements: see section 16.



according to Regulation (EC) No 1907/2006

NATURAL N-BUTYL ALCOHOL

Revision date: 10.02.2023 Product code: 217800 Page 3 of 12

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity		
	Specific Conc. L	pecific Conc. Limits, M-factors and ATE			
71-36-3	200-751-6	NATURAL N-BUTYL ALCOHOL			
	inhalation: LC50 = 24,3 mg/l (vapours); dermal: LD50 = 3430 mg/kg; oral: LD50 = 790 mg/kg				

SECTION 4: First aid measures

4.1. Description of first aid measures

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 inaestion

Observe risk of aspiration if vomiting occurs.

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



according to Regulation (EC) No 1907/2006

NATURAL N-BUTYL ALCOHOL

Revision date: 10.02.2023 Product code: 217800 Page 4 of 12

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

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
71-36-3	NATURAL N-BUTYL ALCOHOL			
Worker DNEL,	long-term	inhalation	local	310 mg/m³
Consumer DNEL, long-term		inhalation	systemic	55 mg/m³
Consumer DNEL, long-term		dermal	systemic	3125 mg/kg bw/day
Consumer DNEL, long-term		inhalation	local	155 mg/m³
Consumer DNEL, long-term		oral	systemic	1562 mg/kg bw/day



according to Regulation (EC) No 1907/2006

NATURAL N-BUTYL ALCOHOL

Revision date: 10.02.2023 Product code: 217800 Page 5 of 12

PNEC values

CAS No	Name of agent					
Environmental	Environmental compartment Value					
71-36-3	71-36-3 NATURAL N-BUTYL ALCOHOL					
Freshwater						
Marine water	0,008 mg/l					
Freshwater sec	0,324 mg/kg					
Marine sedime	0,032 mg/kg					
Micro-organism	2476 mg/l					
Soil	0,017 mg/kg					

8.2. Exposure controls









Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe qas/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)

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: colourless

Melting point/freezing point:

Boiling point or initial boiling point and

-89 °C

118 °C

boiling range:

Flammability:

Lower explosion limits:

Upper explosion limits:

1,4 vol. %

Upper explosion limits:

11,3 vol. %

Flash point:

35 °C

Auto-ignition temperature:

Decomposition temperature:

pH-Value (at 20 °C):

7

Viscosity / kinematic:

3,64 mm²/s

(at 20 °C)



according to Regulation (EC) No 1907/2006

NATURAL N-BUTYL ALCOHOL

Revision date: 10.02.2023 Product code: 217800 Page 6 of 12

Water solubility: 77 g/l

(at 20 °C)

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: 0,84
Vapour pressure: 6,67 hPa

(at 20 °C)

Vapour pressure: 45,4 hPa

(at 50 °C)

Density (at 20 °C): 0,81 g/cm³
Relative vapour density: 2,55

(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:

Solvent content:

Solid content:

Viscosity / dynamic:
(at 20 °C)

not determined

0%

2,95 mPa·s

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.

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

Harmful if swallowed.



according to Regulation (EC) No 1907/2006

NATURAL N-BUTYL ALCOHOL

Revision date: 10.02.2023 Product code: 217800 Page 7 of 12

CAS No	Chemical name								
	Exposure route	Dose		Species	Source	Method			
71-36-3	NATURAL N-BUTYL ALCOHOL								
	oral	LD50 mg/kg	790	Rat	GESTIS				
	dermal	LD50 mg/kg	3430	Rabbit	REACH Dossier	OECD 402			
	inhalation (4 h) vapour	LC50	24,3 mg/l	Rat	REACH Dossier	OECD 403			

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

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 respiratory irritation. (NATURAL N-BUTYL ALCOHOL)

May cause drowsiness or dizziness. (NATURAL N-BUTYL 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.

CAS No	Chemical name	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method			
71-36-3	NATURAL N-BUTYL ALCOHOL									
	Acute fish toxicity	LC50 mg/l	1376		Pimephales promelas (fathead minnow)	REACH Dossier	OECD 203			
	Acute algae toxicity	ErC50	225 mg/l	96 h	Selenastrum capricornutum	REACH Dossier	OECD 201			
	Acute crustacea toxicity	EC50 mg/l	1328		Daphnia magna (Big water flea)	REACH Dossier	OECD 202			
	Crustacea toxicity	NOEC	4,1 mg/l	21 d	Daphnia magna (Big water flea)	REACH Dossier	OECD 211			

12.2. Persistence and degradability

The product has not been tested.

Print date: 09.10.2024



Safety Data Sheet

according to Regulation (EC) No 1907/2006

NATURAL N-BUTYL ALCOHOL

Revision date: 10.02.2023 Product code: 217800 Page 8 of 12

CAS No	Chemical name						
	Method	Value	d	Source			
	Evaluation	•	-	•			
71-36-3	NATURAL N-BUTYL ALCOHOL						
	OECD 301E	68%	5	REACH Dossier			
	Readily biodegradable (according to OECD cri	teria).					
	OECD 301E	87%	10	REACH Dossier			
	Readily biodegradable (according to OECD cri	iteria).	-				
	OECD 301E	98%	28	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
71-36-3	NATURAL N-BUTYL ALCOHOL	0,84

BCF

CAS No	Chemical name	BCF	Species	Source
71-36-3	NATURAL N-BUTYL ALCOHOL	3,16		REACH Dossier

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.



according to Regulation (EC) No 1907/2006

NATURAL N-BUTYL ALCOHOL

Revision date: 10.02.2023 Product code: 217800 Page 9 of 12

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:UN 112014.2. UN proper shipping name:BUTANOLS

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

E1

Inland waterways transport (ADN)

14.1. UN number or ID number:UN 112014.2. UN proper shipping name:BUTANOLS

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



Classification code: F1
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 112014.2. UN proper shipping name:BUTANOLS

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



Special Provisions: 223
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 112014.2. UN proper shipping name:BUTANOLS

14.3. Transport hazard class(es): 3
14.4. Packing group: III



according to Regulation (EC) No 1907/2006

NATURAL N-BUTYL ALCOHOL

Revision date: 10.02.2023 Product code: 217800 Page 10 of 12

Hazard label: 3



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3

10 L

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

Directive 2010/75/EU on industrial 100 % (810 g/l)

emissions:

Directive 2004/42/EC on VOC in 100 % (810 g/l)

paints and varnishes:

Information according to Directive

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



according to Regulation (EC) No 1907/2006

NATURAL N-BUTYL ALCOHOL

Revision date: 10.02.2023 Product code: 217800 Page 11 of 12

Abbreviations and acronyms

Flam. Liq: Flammable liquid Acute Tox: Acute toxicity Skin Irrit: Skin irritation Eye Dam: Eye damage

STOT SE: Specific target organ toxicity - single exposure

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

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.
H302 Harmful if swallowed.
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



according to Regulation (EC) No 1907/2006

NATURAL N-BUTYL ALCOHOL

Revision date: 10.02.2023 Product code: 217800 Page 12 of 12

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