

# Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 29.10.2024

Version: 3.0

Date / Previous version: 18.07.2023

Previous version: 2.0

Product: **n-BUTANOL**

(ID no. 30034729/SDS\_GEN\_UA/EN)

Date of print 21.10.2025

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

### 1.1. Product identifier

## n-BUTANOL

Chemical name: Butan-1-ol

INDEX-Number: 603-004-00-6

CAS Number: 71-36-3

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

Relevant identified uses: solvent(s)

### 1.3. Details of the supplier of the safety data sheet

Company:

«BASF T.O.V.» LLC

139, Velyka Vasylkivska str

Kyiv

UKRAINE

03150

Telephone: +38 044 591 55 95 (96)

E-mail address: basf.ukraine@basf.com

### 1.4. Emergency telephone number

Telephone: +49 180 22 73 11 20

0 800 30 72 72 (valid from Ukraine only !!)

Telefax number: +38 044 591 55 97

## SECTION 2: Hazards Identification

### 2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 3

H226 Flammable liquid and vapour.

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Acute Tox. 4 (oral)	H302 Harmful if swallowed.
Skin Corr./Irrit. 2	H315 Causes skin irritation.
Eye Dam./Irrit. 1	H318 Causes serious eye damage.
STOT SE 3	H336 May cause drowsiness or dizziness.
STOT SE 3	H335 May cause respiratory irritation.

For the classifications not written out in full in this section the full text can be found in section 16.

## 2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Pictogram:



Signal Word:

Danger

Hazard Statement:

H226	Flammable liquid and vapour.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H302	Harmful if swallowed.
H336	May cause drowsiness or dizziness.
H335	May cause respiratory irritation.

Precautionary Statements (Prevention):

P280	Wear protective gloves and eye protection or face protection.
P271	Use only outdoors or in a well-ventilated area.

Precautionary Statements (Response):

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 or physician.

Precautionary Statements (Storage):

P233	Keep container tightly closed.
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Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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## 2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture. See section 12 - Results of PBT and vPvB assessment.

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## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

#### Chemical nature

butan-1-ol

Content (W/W):  $\geq 99,8 \%$ 

CAS Number: 71-36-3

EC-Number: 200-751-6

Flam. Liq. 3

Acute Tox. 4 (oral)

Skin Corr./Irrit. 2

Eye Dam./Irrit. 1

STOT SE 3 (drowsiness and dizziness)

STOT SE 3 (irr. to respiratory syst.)

H226, H318, H315, H302, H336, H335

#### Regulatory relevant ingredients

butan-1-ol

Content (W/W):  $\geq 99,8 \%$  -  $< 100 \%$ 

CAS Number: 71-36-3

EC-Number: 200-751-6

Flam. Liq. 3

Acute Tox. 4 (oral)

Skin Corr./Irrit. 2

Eye Dam./Irrit. 1

STOT SE 3 (drowsiness and dizziness)

STOT SE 3 (irr. to respiratory syst.)

H226, H318, H315, H302, H336, H335

2-methylpropan-1-ol

Content (W/W):  $> 0 \%$  -  $\leq 0,1 \%$ 

CAS Number: 78-83-1

EC-Number: 201-148-0

Flam. Liq. 3

Skin Corr./Irrit. 2

Eye Dam./Irrit. 1

STOT SE 3 (drowsiness and dizziness)

STOT SE 3 (irr. to respiratory syst.)

H226, H318, H315, H336, H335

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

### 3.2. Mixtures

Not applicable

## SECTION 4: First-Aid Measures

### 4.1. Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

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If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

On skin contact:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

#### **4.2. Most important symptoms and effects, both acute and delayed**

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Hazards: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. (Further) symptoms and / or effects are not known so far

#### **4.3. Indication of any immediate medical attention and special treatment needed**

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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### **SECTION 5: Fire-Fighting Measures**

#### **5.1. Extinguishing media**

Suitable extinguishing media:

dry powder, water spray, carbon dioxide, alcohol-resistant foam

Unsuitable extinguishing media for safety reasons:

water jet

Additional information:

Use extinguishing measures to suit surroundings.

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

Advice: Flammable liquid Cool endangered containers with water-spray. See SDS section 7 - Handling and storage.

#### **5.3. Advice for fire-fighters**

Special protective equipment:

Wear a self-contained breathing apparatus. Special protective equipment for firefighters

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Further information:

| Evacuate area of all unnecessary personnel. Fight fire from maximum distance.

| Extend fire extinguishing measures to the surroundings. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## SECTION 6: Accidental Release Measures

| High risk of slipping due to leakage/spillage of product.

| Release of substance/product can cause fire or explosion. Shut off or stop source of leak. Shut off or stop released substance/product under safe conditions.

| Pack in tightly closed containers for disposal.

### 6.1. Personal precautions, protective equipment and emergency procedures

| Handle in accordance with good industrial hygiene and safety practice.

| Avoid all sources of ignition: heat, sparks, open flame. Use antistatic tools.

### 6.2. Environmental precautions

| Discharge into the environment must be avoided.

### 6.3. Methods and material for containment and cleaning up

| Pick up with suitable appliance and dispose of. Spills should be contained, solidified, and placed in suitable containers for disposal. Dispose of absorbed material in accordance with regulations.

### 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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## SECTION 7: Handling and Storage

### 7.1. Precautions for safe handling

| Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

| Avoid all sources of ignition: heat, sparks, open flame. Ground all transfer equipment properly to prevent electrostatic discharge.

### 7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

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### 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

Components with occupational exposure limits

No substance specific occupational exposure limits known.

#### PNEC

freshwater: 0,082 mg/l

marine water: 0,0082 mg/l

intermittent release: 2,25 mg/l

STP: 2476 mg/l

sediment (freshwater): 0,324 mg/kg

sediment (marine water): 0,0324 mg/kg

soil: 0,0166 mg/kg

#### DNEL

worker:

Long-term exposure - systemic and local effects, Inhalation: 310 mg/m<sup>3</sup>

consumer:

Long-term exposure- systemic effects, Inhalation: 55,357 mg/m<sup>3</sup>

consumer:

Long-term exposure- systemic effects, oral: 1,5625 mg/kg

consumer:

Long-term exposure - local effects, Inhalation: 155 mg/m<sup>3</sup>

consumer:

Long-term exposure- systemic effects, dermal: 3,125 mg/kg

## 8.2. Exposure controls

### Personal protective equipment

#### Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

#### Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

butyl rubber (butyl) - 0.7 mm coating thickness

nitrile rubber (NBR) - 0.4 mm coating thickness

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

#### Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

### General safety and hygiene measures

Avoid contact with the skin, eyes and clothing. Avoid inhalation of vapour. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

### Environmental exposure controls

All appropriate measures must be taken to prevent the release of this product to the environment and to limit the dispersion of any release when it occurs. Suitable risk management measures should be in place.

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## SECTION 9: Physical and Chemical Properties

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

State of matter:	liquid	
Form:	liquid	
Colour:	colourless	
Odour:	alcohol-like	
Odour threshold:		
	not determined	
Melting point:	< -90 °C	(ASTM D97)
Boiling point:	119 °C	(OECD Guideline 103)
	(1.013 hPa)	
Flammability:	Flammable.	(derived from flash point)

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Lower explosion limit:

For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15 °C below the flash point.

Upper explosion limit:

For liquids not relevant for classification and labelling.

Flash point:	35 °C	(ISO 2719, closed cup)
Auto-ignition temperature:	355 °C	(DIN 51794)
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
pH value:	4,6 - 5,0 (100 %(m))	
Viscosity, dynamic:	2,947 mPa.s (20 °C)	
Thixotropy:	not thixotropic	
Solubility in water:		(OECD Guideline 105)
	66 g/l (20 °C)	
Solubility (qualitative) solvent(s):	organic solvents soluble	
Partitioning coefficient n-octanol/water (log Kow):	1 (25 °C)	(OECD Guideline 117)
Vapour pressure:	< 10 hPa (20 °C)	
Relative density:	0,8095 (20 °C)	
Density:	0,8095 g/cm3 (20 °C) 0,7824 g/cm3 (55 °C)	(ASTM D4052)
Relative vapour density (air):	2,55 (20 °C) Heavier than air.	(calculated)

Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form. -

**9.2. Other information****Information with regard to physical hazard classes**Explosives

Explosion hazard: Based on the chemical structure there is no indication of explosive properties.

Impact sensitivity:

Based on the chemical structure there is no shock-sensitivity.

Oxidizing properties

Fire promoting properties: Based on its structural properties the product is not classified as oxidizing.



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Flammable liquids

Sustained combustibility:

not determined

Pyrophoric properties

Self-ignition temperature: Temperature: 20 °C

Test type: Spontaneous self-ignition at room-temperature.

Based on its structural properties the product is not classified as self-igniting.

Self-heating substances and mixtures

Self heating ability: not applicable, the product is a liquid

Substances and mixtures, which emit flammable gases in contact with water

Formation of flammable gases:

Forms no flammable gases in the presence of water.

Corrosion to metals

No corrosive effect on metal.

**Other safety characteristics**

pKA:

The substance does not dissociate.

Adsorption/water - soil:

KOC: 3,471; log KOC: 0,54

(calculated)

Surface tension:

69,9 mN/m

(OECD Guideline 115, Ring

(20 °C; 1 g/l)

method)

Molar mass:

74,12 g/mol

SAPT-Temperature:

Study scientifically not justified.

Evaporation rate:

Value can be approximated from Henry's Law Constant or vapor pressure.

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**SECTION 10: Stability and Reactivity****10.1. Reactivity**

Corrosion to metals: No corrosive effect on metal.

Formation of

Remarks:

flammable gases:

Forms no flammable gases in the presence of water.

**10.2. Chemical stability**

The product is stable if stored and handled as prescribed/indicated.

**10.3. Possibility of hazardous reactions**

Reacts with strong oxidizing agents.

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#### 10.4. Conditions to avoid

No special precautions other than good housekeeping of chemicals.

#### 10.5. Incompatible materials

Substances to avoid:  
strong oxidizing agents

#### 10.6. Hazardous decomposition products

Hazardous decomposition products:  
No hazardous decomposition products if stored and handled as prescribed/indicated.

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### SECTION 11: Toxicological Information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Acute toxicity

Assessment of acute toxicity:

Of low toxicity after short-term skin contact. Virtually nontoxic by inhalation. Of low toxicity after single ingestion. The European Union (EU) has classified this substance as 'harmful' after oral exposure.

Experimental/calculated data:

LD50 rat (oral): 2.292 mg/kg (OECD Guideline 401)

The European Union (EU) has classified this substance as 'harmful'.

LC50 rat (by inhalation): > 17,76 mg/l 4 h (OECD Guideline 403)

Highest concentration technically achievable. No mortality was observed. The vapour was tested.

LC50 rat (by inhalation): > 24 mg/l > 8000 ppm 4 h (other)

No mortality was observed. The vapour was tested.

LD50 rabbit (dermal): 3.430 mg/kg (OECD Guideline 402)

##### Irritation

Assessment of irritating effects:

Skin contact causes irritation. Risk of serious damage to eyes.

Experimental/calculated data:

Skin corrosion/irritation

rabbit: Irritant. (BASF-Test)

Serious eye damage/irritation

rabbit: irreversible damage (OECD Guideline 405)

##### Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA) mouse: Non-sensitizing. (similar to OECD guideline 429)

#### Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in studies with mammals.

#### Carcinogenicity

Assessment of carcinogenicity:

No reliable data was available concerning carcinogenic activity. The chemical structure does not suggest a specific alert for such an effect.

#### Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

#### Developmental toxicity

Assessment of teratogenicity:

Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

#### Experiences in humans

Experimental/calculated data:

High concentrations have a narcotizing effect.

#### Irritates the respiratory organs.

#### Specific target organ toxicity (single exposure)

Assessment of STOT single:

Possible narcotic effects (drowsiness or dizziness). Causes temporary irritation of the respiratory tract.

#### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

No substance-specific organotoxicity was observed after repeated administration to animals.

#### Aspiration hazard

Some authorities consider isobutyl alcohol, n-primary alcohols and ketones with C3-C13 as "May be harmful if swallowed and enters airways"

#### Interactive effects

No data available.

## 11.2. Information on other hazards

### Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

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## SECTION 12: Ecological Information

### 12.1. Toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:

LC50 (96 h) 1.376 mg/l, *Pimephales promelas* (OECD 203; ISO 7346; 92/69/EWG, C.1, static)

Aquatic invertebrates:

EC50 (48 h) 1.328 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants:

EC50 (96 h) 225 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)

No observed effect concentration (96 h) 129 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)

Microorganisms/Effect on activated sludge:

EC10 (17 h) 2.476 mg/l, *Pseudomonas putida* (DIN 38412 Part 8, aerobic)

Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d) 4,1 mg/l, *Daphnia magna* (OECD Guideline 211, semistatic)

Assessment of terrestrial toxicity:

No data available.

### 12.2. Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):

Readily biodegradable (according to OECD criteria).

Elimination information:

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92 % BOD of the ThOD (20 d) (APHA 'Standard Methods', No. 219, 1971) (aerobic, activated sludge, domestic, non-adapted)  
Literature data.

Assessment of stability in water:  
No data available.

Information on Stability in Water (Hydrolysis):  
No data available.

### 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:  
Significant accumulation in organisms is not to be expected.

Bioaccumulation potential:  
No data available.

### 12.4. Mobility in soil

Assessment transport between environmental compartments:  
Volatility: The substance will not evaporate into the atmosphere from the water surface.  
Adsorption in soil: Adsorption to solid soil phase is not expected.

### 12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative). Self classification

### 12.6. Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

### 12.7. Other adverse effects

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

#### Additional information

Adsorbable organically-bound halogen (AOX):  
This product contains no organically-bound halogen.

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Other ecotoxicological advice:

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

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## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

| Dispose of in accordance with national, state and local regulations.

Contaminated packaging:

| Disposal must be made according to official regulations.

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## SECTION 14: Transport Information

### Land transport

ADR

UN number or ID number: UN1120

UN proper shipping name: BUTANOLS

Transport hazard class(es): 3

Packing group: III

Environmental hazards: no

Special precautions for user: Tunnel code: D/E

RID

UN number or ID number: UN1120

UN proper shipping name: BUTANOLS

Transport hazard class(es): 3

Packing group: III

Environmental hazards: no

Special precautions for user: None known

### Inland waterway transport

ADN

UN number or ID number: UN1120

UN proper shipping name: BUTANOLS

Transport hazard class(es): 3

Packing group: III

Environmental hazards: no

Special precautions for user: None known

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Transport in inland waterway vessel

UN number or ID number: UN1120

UN proper shipping name: BUTANOLS (n-BUTYLALKOHOL)

Transport hazard class(es): 3

Packing group: III

Environmental hazards: no

Type of inland waterway

vessel: N

Cargo tank design: 3

Cargo tank type: 2

**Sea transport**

IMDG

UN number or ID number: UN 1120

UN proper shipping name: BUTANOLS

Transport hazard class(es): 3

Packing group: III

Environmental hazards: no

Marine pollutant: NO

Special precautions for user: EmS: F-E; S-D

**Air transport**

IATA/ICAO

UN number or ID number: UN 1120

UN proper shipping name: BUTANOLS

Transport hazard class(es): 3

Packing group: III

Environmental hazards: No Mark as dangerous for the environment is needed

Special precautions for user: None known

**14.1. UN number or ID number**

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

**14.2. UN proper shipping name**

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

**14.3. Transport hazard class(es)**

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

**14.4. Packing group**

See corresponding entries for "Packing group" for the respective regulations in the tables above.

**14.5. Environmental hazards**

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

**14.6. Special precautions for user**

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

**14.7. Maritime transport in bulk according to IMO instruments**

Regulation:	IBC-Code
Product name:	n-Butyl alcohol
Pollution category:	Z
Ship Type:	Not applicable

**Further information**

To products mentioned in chapter 18 of the IBC-Code, no ship type is assigned within this list.

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**SECTION 15: Regulatory Information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

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**SECTION 16: Other Information**

Assessment of the hazard classes according to UN GHS criteria (most recent version)

Flam. Liq. 3  
Acute Tox. 5 (dermal)  
Skin Corr./Irrit. 2  
STOT SE 3 (irritating to respiratory system)



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STOT SE 3 (May cause drowsiness and dizziness.)

Acute Tox. 5 (oral)

Eye Dam./Irrit. 1

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Flam. Liq.	Flammable liquids
Acute Tox.	Acute toxicity
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
STOT SE	Specific target organ toxicity — single exposure
H226	Flammable liquid and vapour.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H302	Harmful if swallowed.
H336	May cause drowsiness or dizziness.
H335	May cause respiratory irritation.

#### Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

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