EtOH AQ 1,0 g/L – In vitro diagnosticum

Ethanolstandards in wässriger Lösung

Anwendung
Ethanolstandard für die Kalibrierung der Messmethoden zur Ethanolbestimmung.

Gebrauchsanweisung
Die Probe ist gebrauchsfertig und entsprechend der eigenen Laborvorschriften einzusetzen.

Zielwert
Die Ethanol-Konzentration wurde von 3 akkreditierten Laboratorien (DIN EN 17025) ermittelt. Es wurden jeweils Doppelbestimmungen mit zwei Methoden (GC und ADH) pro Tag an 5 Tagen durchgeführt. Die ermittelten Zielwerte sind auf primäre Ethanolstandards (ERM[1] Ethanolstandard in wässriger Lösung) rückführbar.

Lagerung und Haltbarkeit
Lagerung: + 2° bis + 8° C
Haltbarkeit:
- Original verschlossen, lichtgeschützt: siehe Verfallsdatum auf der Packung.
- Dicht verschlossen, lichtgeschützt: siehe Verfallsdatum auf der Packung.

EtOH AQ 1.0 g/L – For in vitro diagnostic use

Aqueous Ethanol Standards

Application
This aqueous ethanol standard is intended for the calibration of analytical techniques used to determine the concentration of ethanol.

User guide
This ACQ Science EtOH AQ requires no additional preparation and is ready for use.

Target value
The assigned ethanol concentration was determined by 3 independent laboratories, each accredited to DIN EN 17025. Repeat determinations were carried out daily on 5 days using two independent analytical methods (Gas Chromatography and Enzymatic determination (ADH)). The material is traceable to primary ethanol standards (ERM[1] ethanol standard in aqueous solution).

Storage and stability
Storage: + 2 ° to + 8 ° C
Stability:
- Sealed container, stored in the dark: see expiration date on the package.
- Stored in the dark tightly capped: see expiration date on package.

Ch.-B / Lotto:	101091013
Best.-Nr. / Codice:	AQ10-015 (10 x 1,5 ml) AQ10-115 (100 x 1,5 ml) AQ10-030 (10 x 3,0 ml)
Version / Versione:	5 – 202207

Lot / Lot:	101091013
Best.-Nr. / Codice:	AQ10-015 (10 x 1,5 ml) AQ10-115 (100 x 1,5 ml) AQ10-030 (10 x 3,0 ml)
Version / Version:	5 – 202207

EtOH AQ 1,0 g/L – Uso diagnostico in vitro

Standard Etanolo in soluzione acquosa

Applicazione
Questo prodotto è inteso come materiale di calibrazione per le tecniche applicative utilizzate nella determinazione della concentrazione dell'etanolo.

Utilizzo
Pronto all'uso.

Valori attesi
I valori assegnati sono stati determinati da 3 laboratori indipendenti accreditati (DIN EN 17025) attraverso la misurazione in duplicato tramite due differenti metodi (Cromatografico GC e enzimatico AHD) per 5 giorni.
Lo standard è stato caratterizzato tramite l'uso di una soluzione standard di etanolo certificata (*ERM[1] ethanol standard in aqueous solution*).

Conservazione e stabilità
Conservazione: + 2° fino a + 8° C
Stabilità:
- Flacone non aperto: se conservato ben chiuso ed al riparo dalla luce fino alla data di scadenza.
- Flacone aperto: se conservato ben chiuso ed al riparo dalla luce fino alla data di scadenza in etichetta.

EtOH AQ 1,0 g/L – Usage in vitro

Standards d' Ethanol aqueux

Application
Standard dédié à la calibration pour techniques analytiques de détermination de concentration d'éthanol.

Utilisation
Ce standard est prêt à l'emploi.

Valeur cible
Les valeurs cibles ont été déterminées par 3 laboratoires accrédités (DIN EN 17025). Une double détermination a été effectuée par jour par méthode (une méthode chromatographique GC et une méthode enzymatique ADH) pendant 5 jours.
Ce matériel a été caractérisé en utilisant des standards primaires ERM[1] d'ethanol en solution aqueuse.

Conservation et stabilité
Conservation: + 2° jusqu'à + 8° C
Stabilité:
- Scellé (à l'origine), à l'abri de la lumière: voire la date d'expiration indiquée sur l'étiquette.
- à stocker hermétiquement à l'abri de la lumière: voire la date d'expiration indiquée sur l'étiquette.

ACQ Science GmbH
Etzwiesenstraße 37
72108 Rottenburg-Hailfingen
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EtOH AQ 1,0 g/L – Lot: 101091013 - For in vitro diagnostic use

Aqueous Ethanol Standards

Messverfahren Method Metodo Mèthode	Zielkonzentration Target concentration Valori attesi Valeur cible	Mittelwert Mean value Valore Medio Meyenne	Konfidenzbereich des Mittelwertes Confidence range of the mean value Intervallo di Fiducia Intervalle de confiance	Einheit Unit Unità Unité
GC	**1,000**	**1,006**	**0,978 – 1,034**	g/L
ADH	**1,000**	**1,020**	**0,994 – 1,046**	g/L
Methodenkombination[2] Combined methodology[2]	**1,000**	**1,009**	**0,991 – 1,027**	g/L

Konfidenzbereich – Analysenwerte

Der Konfidenzbereich gibt den Bereich an, in dem der Zielwert mit einer Wahrscheinlichkeit von 95 % liegt.

[1] European Reference Materials *www.erm-crm.org*

Kontrollmessungen

ERM-Standard	Referenzwert	Mittelwert der Kontrollmessungen	Einheit
ERM AC 409	0,20	0,20	g/L
ERM AC 511	0,67	0,66	g/L
ERM AC 402	1,07	1,07	g/L
ERM AC 403	2,00	2,00	g/L

[2] für Deutschland: Forensische Blutalkoholbestimmung gemäß den Richtlinien des BGA (Bundesgesundheitsamt)

Confidence ranges – measured values

The confidence interval indicates the range in which the target value is located with a significance level of 95%.

[1] European Reference Materials *www.erm-crm.org*

Control measurement

ERM standard	Reference value	Mean value of control measurement	Unit
ERM AC 409	0.20	0.20	g/L
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ERM AC 402	1.07	1.07	g/L
ERM AC 403	2.00	2.00	g/L

[2] Forensic directives for Germany

Intervallo di fiducia - Valori di analisi

L'intervallo di fiducia indica l'intervallo entroil quale si trova il valore atteso con un livello di significatività del 95%.

[1] European Reference Materials *www.erm-crm.org*

Misure di controllo

Standard ERM	Valore di riferimento	Valore medio delle misure di controllo	Unità
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ERM AC 403	2,00	2,00	g/L

[2] Direttive per la Medicina Forense in Germania

Intervalle de confiance – Valeurs des analyses

La marge de confiance est la marge dans laquellela valeur cible se trouve avec une probabilité de 95 %.

[1] European Reference Materials *www.erm-crm.org*

Contrôle

ERM-Standard	Valeur de référence	Moyenne Check measurement	Unité
ERM AC 409	0,20	0,20	g/L
ERM AC 511	0,67	0,66	g/L
ERM AC 402	1,07	1,07	g/L
ERM AC 403	2,00	2,00	g/L

[2] Directives pour la Médecine Légale en Allemagne

Hersteller / Manufacturer / Produttore / Producteur

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Etzwiesenstraße 37
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EtOH AQ 3,0 g/L – In vitro diagnosticum

Ethanolstandards in wässriger Lösung

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Ethanolstandard für die Kalibrierung der Messmethoden zur Ethanolbestimmung.

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EtOH AQ 3.0 g/L – For in vitro diagnostic use

Aqueous Ethanol Standards

Application
This aqueous ethanol standard is intended for the calibration of analytical techniques used to determine the concentration of ethanol.

User guide
This ACQ Science EtOH AQ requires no additional preparation and is ready for use.

Target value
The assigned ethanol concentration was determined by 3 independent laboratories, each accredited to DIN EN 17025. Repeat determinations were carried out daily on 5 days using two independent analytical methods (Gas Chromatography and Enzymatic determination (ADH)). The material is traceable to primary ethanol standards (ERM[1] ethanol standard in aqueous solution).

Storage and stability
Storage: + 2 ° to + 8 ° C
Stability:
- Sealed container, stored in the dark: see expiration date on the package.
- Stored in the dark tightly capped: see expiration date on package.

Ch.-B / Lotto:	101091018
Best.-Nr. / Codice:	AQ30-015 (10 x 1,5 ml) AQ30-115 (100 x 1,5 ml) AQ30-030 (10 x 3,0 ml)
Version / Versione:	5 – 202207

Lot / Lot:	101091018
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Version / Version:	5 – 202207

EtOH AQ 3,0 g/L – Uso diagnostico in vitro

Standard Etanolo in soluzione acquosa

Applicazione
Questo prodotto è inteso come materiale di calibrazione per le tecniche applicative utilizzate nella determinazione della concentrazione dell'etanolo.

Utilizzo
Pronto all'uso.

Valori attesi
I valori assegnati sono stati determinati da 3 laboratori indipendenti accreditati (DIN EN 17025) attraverso la misurazione in duplicato tramite due differenti metodi (Cromatografico GC e enzimatico AHD) per 5 giorni.
Lo standard è stato caratterizzato tramite l'uso di una soluzione standard di etanolo certificata (*ERM[1] ethanol standard in aqueous solution*).

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EtOH AQ 3,0 g/L – Usage in vitro

Standards d' Ethanol aqueux

Application
Standard dédié à la calibration pour techniques analytiques de détermination de concentration d'éthanol.

Utilisation
Ce standard est prêt à l'emploi.

Valeur cible
Les valeurs cibles ont été déterminées par 3 laboratoires accrédités (DIN EN 17025). Une double détermination a été effectuée par jour par méthode (une méthode chromatographique GC et une méthode enzymatique ADH) pendant 5 jours.
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EtOH AQ 3,0 g/L – Lot: 101091018 - For in vitro diagnostic use

Aqueous Ethanol Standards

Messverfahren Method Metodo Mèthode	Zielkonzentration Target concentration Valori attesi Valeur cible	Mittelwert Mean value Valore Medio Meyenne	Konfidenzbereich des Mittelwertes Confidence range of the mean value Intervallo di Fiducia Intervalle de confiance	Einheit Unit Unità Unité
GC	**3,000**	**3,029**	**2,963 – 3,095**	g/L
ADH	**3,000**	**3,010**	**2,950 – 3,070**	g/L
Methodenkombination[2] **Combined methodology[2]**	**3,000**	**3,015**	**2,967 – 3,063**	g/L

Konfidenzbereich – Analysenwerte

Der Konfidenzbereich gibt den Bereich an, in dem der Zielwert mit einer Wahrscheinlichkeit von 95 % liegt.

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[2] Forensic directives for Germany

Intervallo di fiducia - Valori di analisi

L'intervallo di fiducia indica l'intervallo entroil quale si trova il valore atteso con un livello di significatività del 95%.

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[2] Direttive per la Medicina Forense in Germania

Intervalle de confiance – Valeurs des analyses

La marge de confiance est la marge dans laquellela valeur cible se trouve avec une probabilité de 95 %.

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Contrôle

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ERM AC 402	1,07	1,07	g/L
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[2] Directives pour la Médecine Légale en Allemagne

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Safety Data Sheet

According to Regulation (EC) No 1907/2006 and Regulation (EU) Nr. 2020/878

EtOH AQ – Aqueous Ethanol Standards

SECTION 1: Identification of the Substance / Mixture and of the Company

1.1. Product identifier

Product Name	EtOH AQ 0,1 - 5,0 g/L
Product code	AQ01-015/-030/-115 – AQ50-015/-030/-115

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

Use of the substance / mixture	IVD – Laboratory Reagent Restricted to professional users; not for use on humans or animals

1.3. Details of the supplier of the safety data sheet

Company name:	ACQ Science GmbH
Street:	Etzwiesenstr. 37
Place:	D-72108 Rottenburg-Hailfingen
Phone:	+49 (0)7457 94693 0
Fax:	+49 (0)7457 94693 69
E-mail:	info@acq-science.de
Internet:	www.acq-science.de

1.4. Emergency phone no.: Poisons Information Service Center- Freiburg - Germany
Phone: +49 (0)761 19240

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

See Section 3 and 16 for the classification of the components in the control.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Supplemental label elements/information on certain mixtures

EUH210 Safety data sheet available on request

2.3. Other hazards

No information available

SECTION 4: Composition / Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical characterization

Contains: water, liquid

Hazardous components

CAS-No.	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
26628-22-8	Sodium azide			0,09 - <0,1%
	247-852-1	011-004-00-7	01-2119457019-37	
	Acute Tox: 1, Acute Tox:2, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H310 H300 H373 H400 H410 EUH032			
64-17-5	Ethanol; Ethylalkohol			0,01 – 0,5 %
	200-578-6	603-002-00-5		
	Flam. Liq. 2, Eye Irrit. 2; H225 H319			

Full text of H and EUH statements: See SECTION 16.

SECTION 4: First Aid Measures

4.1. Description of first aid measures

General information Do not leave affected person unattended.

After inhalation Provide fresh air. Get medical advice / attention. If unconscious, place in recovery position and seek medical advice.

After contact with skin Wash with plenty of water. Following skin contact: Disinfectants. Immediately remove any contaminated clothing, shoes or stockings. In case of skin reactions, consult a physician.

After contact with eyes Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye. In case of troubles or persistent symptoms, consult an ophthalmologist. In case of eye irritation consult an ophthalmologist.

After ingestion Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Get immediate medical advice / attention.

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

None known

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

First Aid measures have to be determined in cooperation with the physician responsible for occupational medicine.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Adopt fire-fighting measures to the respective environment
Unsuitable Extinguishing Media full Water jet

5.2. Special hazards arising from the substance or mixture

No information available.

5.3. Advice for firefighters

In the case of fire, wear a self-contained breathing apparatus.

Additional information: Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose of waste according to applicable legislation.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment, and emergency procedures

Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes, and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Take up mechanically, place in appropriate containers for disposal. Treat the recovered material as prescribed in the SECTION 13: Waste Disposal.

Clean floors and contaminated objects with: Solvents, disinfectants

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

Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes, and clothes. Use personal protection equipment.

Advice on protection against fire and explosion

Usual measures for fire prevention

Advice on general hygiene measures at the workplace

- Do not eat, drink or smoke at workplace
- After use: wash and disinfect hands

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers

Keep container tightly closed and in a well-ventilated place. Store in a cool, dry place.

Advice on joint storage

Do not store together with:	food and feed,
Further information on storage conditions	
Protect against:	Light, humidity, heat
Storage temperature:	2 – 8 °C
Maximum storage period:	Observe expiry date

7.3. Specific end use(s)

Laboratory chemicals, specific analysis
Restricted to professional users

SECTION 8: Exposure Controls / Personal Protection

8.1. Control parameters

Exposure limits

Chemical name	ppm	mg/m³	Value in bio. Material	Category	Origin	Country
General dust threshold limit value, alveolar fraction		1,25 A			DGUV	Germany
General dust threshold limit value, inhalable fraction		10 E			DGUV	Germany
Sodium azide (as NaN3) CAS No. 26628-22-8	–	0.1 0,2 (c) 0,29		TWA (8h) 2(I) STEL 15 min	EH40/2005 DGUV OHScode	Germany Canada
Ethanol (Ethyl alcohol) CAS No. 64-17-5	200	380		Y, 4(II)	DGUV	Germany

8.2. Exposure controls

Appropriate engineering controls

Provide adequate air ventilation and point extraction at critical points.

Protective and hygiene measures

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 or sniff. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes, and clothes. For cleaning up: Solvents, disinfectants.

Eye/face protection

Wear eye/face protection.

Hand protection

Wear suitable gloves tested to EN374.

When handling 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 supplier of these gloves.

Body protection

Wear adequate protective clothing

Respiratory protection

Usually, no personal respiratory protection necessary.

Thermal hazards

Not applicable

Environmental exposure controls

Do not allow to enter into surface water or drains. Avoid release to the environment.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	clear
Odor:	not applicable
Odor threshold:	not applicable
pH value:	7

Changes in the physical state

Melting point:	not determined
Initial boiling point and range:	not determined
Flash point:	not applicable

Flammability

Solid:	not determined
Gas:	not applicable

Explosive properties

No data available

Lower explosion limit:	not determined
Upper explosion limit:	not determined
Ignition temperature:	not determined

Auto-ignition temperature

Solid:	not determined
Gas:	not applicable
Decomposition temperature:	not determined

Oxidizing properties

No data available

Vapour pressure:	not determined
Density:	not determined
Water solubility:	completely miscible

Solubility in other solvents

Not determined

Partition coefficient:	not determined
Viscosity / dynamic:	not determined

Viscosity / kinematic:	not determined
Vapour density:	not determined
Evaporation rate:	not determined

9.2. Other information

No information available.

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is chemically stable under recommended storage, use and temperature conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions under recommended storage, and handling conditions.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

See section 5

SECTION 11: Toxicological Information

11.1. Information on hazard classes according to Regulation (EC) No 1272/2008

Acute toxicity:

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

Acute toxicity of components of the mixture

CAS No.	Chemical name				
	Route of exposure	Dose	Species	Source	Method
26628-22-8	**Sodium azide**				
	oral	LD50 27 mg/kg	Rat	Manufacturer	
	dermal	LD50 20 mg/kg	Rabbit	Manufacturer	
64-17-5	**Ethanol**				
	oral	LD50 10.470 mg/kg	Rat	Manufacturer	

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 / teratogenic effects

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

STOT – single exposure

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

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.

Practical experience

Based on available data, the classification criteria are not met

11.2. Information about other hazards

Not known.

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

CAS No.	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
26628-22-8	**Sodium azide**					
	Acute algae toxicity	ErC50 0,35 mg/l	96 h	*Pseudokirchneriella subcapitata*	Manufacturer	OECD 201

12.2. Persistence and degradability

No experimental data are available for the mixture but it is soluble in water and presumably persistence is improbable.

12.3 Bio-accumulative potential

Partition coefficient n-octanol/water

CAS No.	Chemical name	Log Pow
26628-22-8	Sodium azide	0,3

12.4. Mobility in soil

The product is water soluble and may be spread in water systems. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

12.5. Results of PBT and vPvB assessment

None known

12.6. Endocrine disrupting properties

None known

12.7. Other adverse effects

None known

SECTION 13: Waste treatment methods

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Delivery to an approved waste disposal company. Dispose of waste according to applicable legislation.

Contaminated packaging
Non-contaminated packaging may be recycled. Handle contaminated packaging the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1.	**UN number:**	Not a dangerous product according to these transport regulations
14.2.	**UN proper shipping name:**	Not a dangerous product according to these transport regulations
14.3.	**Transport hazard class(es):**	Not a dangerous product according to these transport regulations
14.4.	**Packaging group:**	Not a dangerous product according to these transport regulations

Inland marine transport (ADN)

14.1.	**UN number:**	Not a dangerous product according to these transport regulations
14.2.	**UN proper shipping name:**	Not a dangerous product according to these transport regulations
14.3.	**Transport hazard class(es):**	Not a dangerous product according to these transport regulations
14.4.	**Packaging group:**	Not a dangerous product according to these transport regulations

Marine transport (IMDG)

14.1.	**UN number:**	Not a dangerous product according to these transport regulations
14.2.	**UN proper shipping name:**	Not a dangerous product according to these transport regulations
14.3.	**Transport hazard class(es):**	Not a dangerous product according to these transport regulations
14.4.	**Packaging group:**	Not a dangerous product according to these transport regulations

Air transport (ICAO-TI/IATA-DGR)

14.1.	**UN number:**	Not a dangerous product according to these transport regulations
14.2.	**UN proper shipping name:**	Not a dangerous product according to these transport regulations
14.3.	**Transport hazard class(es):**	Not a dangerous product according to these transport regulations
14.4.	**Packaging group:**	Not a dangerous product according to these transport regulations

14.5 Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Specific precautions of users

No information available

14.7. Transport in bulk according to Annex II of MARPOL and IBC Code

Not applicable

SECTION 15: Regulatory Information

15.1. Safety, health, and environmental regulations / legislation specific for the substance or mixture

EU regulatory information

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions:	Observe restrictions to employment for juveniles according to the Juvenile Work Protection Guideline (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Water hazard class (D):	not hazardous to water

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not performed.

SECTION 16: Other Information

Abbreviations and acronyms (in alphabetical order)

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)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Acute toxicity estimate
BCF: Bio-concentration factor
CAS: Chemical Abstracts Service
CLP: Classification, labelling and Packaging
DGUV: Deutsch Gesetzliche Unfallversicherung (German national accident insurance)
DMEL: Derived Minimal Effect Level
DNEL: Derived No Effect Level
EC50: Effective Concentration 50%
EL50: Effect loading, 50%
EmS: Emergency Schedules
ErC50: Effective Concentration 50%, growth rate
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
IATA: International Air Transport Association
IBC: Intermediate Bulk Container
ICAO: International Civil Aviation Organization
IMDG: International Maritime Code for Dangerous Goods
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
MARPOL International Convention for the Prevention of Marine Pollution from Ships
MFAG: Medical First Aid Guide
NOEC: No Observed Effect Concentration
PBT: Persistent, bio-accumulative, toxic
PNEC: Predicted No Effect Concentration
REACH: Registration, Evaluation and Authorization of Chemicals
RID: Regulations concerning the international carriage of dangerous goods by rail
SVHC: Substance of Very High Concern
UN: United Nations
vPvB: Very persistent, very bio-accumulative

Safety Data Sheet

According to Regulation (EC) No 1907/2006 and Regulation (EU) Nr. 2020/878

EtOH AQ – Aqueous Ethanol Standards

For abbreviations and acronyms see table available under http://abk.esdscom.eu.

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Aquatic Chronic 1; H410	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H319	Causes serious eye irritation
H373	Prolonged or repeated exposure may cause damage to organs.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH032	Contact with acids liberates very toxic gas.
EUH210	Safety data sheet available on request.

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 recipient of our product is solely responsible for adhering to existing laws and regulations.