

## Safety Data Sheet

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

### EtOH Cal AQ – Aqueous Ethanol Standards

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

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##### 1.1. Product identifier

Product Name EtOH Cal 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: Etwiesenstr. 37  
Place: D-72108 Rottenburg-Hailfingen  
Phone: +49 (0)7457 94693 0  
Fax: +49 (0)7457 94693 69  
E-mail: [info@acq-science.de](mailto:info@acq-science.de)  
Internet: [www.acq-science.de](http://www.acq-science.de)

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

#### SECTION 2: Hazards Identification

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##### 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

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##### 3.1. Substances

Not applicable

##### 3.2. Mixtures

###### Chemical characterization

Contains: water, liquid

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#### 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.

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#### 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

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#### 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

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#### 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

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#### 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/m <sup>3</sup>	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 NaN <sub>3</sub> ) 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.

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#### 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

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### 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

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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
<b>26628-22-8</b>	<b>Sodium azide</b>				
	oral	LD50 27 mg/kg	Rat	Manufacturer	
	dermal	LD50 20 mg/kg	Rabbit	Manufacturer	
<b>64-17-5</b>	<b>Ethanol</b>				
	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.

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#### 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	<i>Pseudokirchneriella subcapitata</i>	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

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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



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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

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##### 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

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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.