

according to Regulation (EC) No 1907/2006

# Acetonitrile > 99.7 % for analysis, Reag. Ph. Eur.

Revision date: 17.05.2023

Product code: 27388

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

## 1.1. Product identifier

Acetonitrile > 99.7 % for analysis, Reag. Ph. Eur.

REACH Registration Number:	01-2119471307-38-XXXX
CAS No:	75-05-8
Index No:	608-001-00-3
EC No:	200-835-2

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

# Use of the substance/mixture

Laboratory chemical Industrial uses: Uses of substances as such or in preparations at industrial sites Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

.3.	Details	of the	supplier	of the	safety	data sheet

1.3. Details of the supplier of the s	<u>afety data sheet</u>	
Company name:	AnalytiChem GmbH	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
E-mail:	info@analytichem.de	
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
E-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	
<u>1.4. Emergency telephone</u> number:	Exposure, or Accident Call CHEMTR	bus Goods] Incidents Spill, Leak, Fire, REC Day or Night Within USA and Canada: anada: +1 703-741-5970 (collect calls

### **Further Information**

No data available

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Regulation (EC) No 1272/2008

Flam. Liq. 2; H225 Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H302 Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

## Regulation (EC) No 1272/2008

Hazard components for labelling acetonitrile

Signal word: Danger

Revision No: 1,02 - Replaces version: 1,01



# AnalytiChem GmbH

# Safety Data Sheet

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Pictograms:		
Hazard statements	•	
H225	Highly flammable liquid and vapour.	
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.	
H319	Causes serious eye irritation.	
Precautionary statement	ts	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P240	Ground and bond container and receiving equipment.	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
<u>2.3. Other hazards</u> No data available		

# **SECTION 3: Composition/information on ingredients**

## 3.1. Substances

Sum formula:	C2H3N
Molecular weight:	41,05 g/mol

### Hazardous components

CAS No	Chemical name			Quantity		
	EC No Index No REACH No					
	Classification (Regulation (EC) No 1272/2008)					
75-05-8	acetonitrile					
	200-835-2 608-001-00-3 01-2119471307-38-XXXX					
	Flam. Liq. 2, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2; H225 H332 H312 H302 H319					

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

## Specific Conc. Limits, M-factors and ATE

CAS No	EC No Chemical name				
	Specific Conc. Limits, M-factors and ATE				
75-05-8	200-835-2 acetonitrile		100 %		
	inhalation: LC50 = 3587 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 469 mg/kg				

### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

## **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

# **General information**

No data available

# After inhalation

Provide fresh air.



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If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.

# After contact with skin

Take off immediately all contaminated clothing and wash it before reuse.

Call a physician immediately.

## After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

Headache Dyspnoea Irritant Vomiting Spasms Unconsciousness Respiratory complaints Cardiac arrhythmias Dizziness Release of: Hydrogen cyanide (hydrocyanic acid)

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

Release of: Hydrogen cyanide (hydrocyanic acid)

#### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

## Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.

#### Unsuitable extinguishing media

no restriction

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

Combustible liquid.

Vapours are heavier than air, spread along floors and form explosive mixtures with air. Hazardous combustion products

In case of fire may be liberated: Carbon dioxide (CO2), Carbon monoxide Hydrogen cyanide (hydrocyanic acid) Nitrogen oxides (NOx)

Beware of reignition.

## 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes. Avoid contact with skin, eyes and clothes.

#### Additional information

Danger of bursting container. Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Move undamaged containers from immediate hazard area if it can be done safely.

### **SECTION 6: Accidental release measures**



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

### General advice

Keep away from sources of ignition - No smoking.

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

Take action to prevent static discharges.

# For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

#### For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration. Danger of explosion

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

#### For containment

Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Collect in closed and suitable containers for disposal. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### 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

Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Do not breathe vapour/aerosol. Provide adequate ventilation.

#### 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 or



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drink.

#### Further information on handling

Take off immediately all contaminated clothing and wash it before reuse.

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### Further information on storage conditions

Keep cool. Protect from sunlight.

storage temperature: +5°C - +30°C

## 7.3. Specific end use(s)

Laboratory chemicals

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
75-05-8	Acetonitrile	40	70		TWA (8 h)	

#### **DNEL/DMEL** values

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
75-05-8	acetonitrile					
Worker DNEL	, long-term	inhalation	systemic	68 mg/m³		
Worker DNEL	., acute	inhalation	systemic	68 mg/m³		
Worker DNEL	., long-term	inhalation	local	68 mg/m³		
Worker DNEL	., acute	inhalation	local	68 mg/m³		
Worker DNEL	., long-term	dermal	systemic	32,2 mg/kg bw/day		
Consumer DN	IEL, long-term	inhalation	systemic	4,8 mg/m <sup>3</sup>		
Consumer DN	IEL, acute	inhalation	systemic	220 mg/m <sup>3</sup>		
Consumer DNEL, long-term		inhalation	local	4,8 mg/m <sup>3</sup>		
Consumer DNEL, acute		inhalation	local	22 mg/m³		
Consumer DN	IEL, acute	oral	systemic	0,6 mg/kg bw/day		



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#### **PNEC** values

CAS No	Substance				
Environment	Environmental compartment Value				
75-05-8	acetonitrile				
Freshwater 10 mg/l					
Freshwater (intermittent releases) 10 mg/l					
Marine water 1 mg/l					
Freshwater sediment 7,53 mg/kg					
Micro-organisms in sewage treatment plants (STP) 32 mg/l					
Soil 2,41 mg/kg					

#### 8.2. Exposure controls

#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Suitable eye protection: goggles.

#### Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation: KCL 897 Butoject® Suitable material: Butyl caoutchouc (butyl rubber) 0,3 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 897 Butoject® Suitable material: Butyl caoutchouc (butyl rubber) 0,3 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

#### Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

### **Respiratory protection**

Respiratory protection necessary at: aerosol or mist formation Filtering device with filter or ventilator filtering device of type: A

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Danger of explosion



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# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

9.1	. Information on basic physical and cher	nical properties	
	Physical state:	Liquid	
	Colour:	colourless	
	Odour:	like: Ether	
	Melting point/freezing point:		-45,7 °C
	Boiling point or initial boiling point and		81,6 °C
	boiling range:		
	Flammability:		not applicable
			not applicable
	Lower explosion limits:		3,0 vol. %
	Upper explosion limits:		17 vol. %
	Flash point:		2 °C
	Auto-ignition temperature:		524 °C
	Decomposition temperature:		No data available
	pH-Value:		No data available
	Viscosity / kinematic:		No data available
	Water solubility:		Soluble in: Water
	Solubility in other solvents		
	not determined		
	Partition coefficient n-octanol/water:		log Pow: 0,29
	Vapour pressure:		97 hPa
	(at 20 °C)		07 m u
	Vapour pressure:		330 hPa hPa
	(at 50 °C)		
	Density:		0,786 g/cm <sup>3</sup>
	Bulk density:		No data available
	Relative vapour density:		No data available
<u>9.2</u>	2. Other information		
	Information with regard to physical haza	ard classes	
	Explosive properties		
	Vapours are heavier than air, spread a	along floors and form explosive m	ixtures with air.
	Sustaining combustion:	0	No data available
	Self-ignition temperature		
	Solid:		not applicable
	Gas:		not applicable
	Oxidizing properties		
	Not oxidising.		
	Other safety characteristics		
	Evaporation rate:		No data available
	Solvent separation test:		No data available
	Solvent content:		100
	Solid content:		No data available
	Sublimation point:		No data available
	Softening point:		No data available
	Pour point:		No data available
	No data available:		
	Viscosity / dynamic:		0,316 mPa·s
	(at 25 °C)		
	Flow time:		No data available

## **Further Information**



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No data available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Vapours may form explosive mixtures with air.

# 10.2. Chemical stability

Keep away from heat.

#### 10.3. Possibility of hazardous reactions

Violent reaction with: Base, Reducing agent, strong Danger of explosion: sulphuric acid, NO3, Perchlorate, Perchloracid Ignition hazard: Oxidising agent, Nitric acid, Nitrogen dioxide Possibility of hazardous reactions: Acid

## 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

Rubber articles Plastic articles

# 10.6. Hazardous decomposition products

**SECTION 5: Firefighting measures** 

## Further information

No data available

### **SECTION 11: Toxicological information**

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

# Toxicocinetics, metabolism and distribution

No data available

#### Acute toxicity

Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.

# CAS No Chemical name

0,10,110						
	Exposure route	Dose	Species Source		Method	
75-05-8	acetonitrile					
	oral	LD50 mg/kg	469	Mouse	Study report (1998)	OECD Guideline 401
	dermal	LD50 mg/kg	> 2000	Rabbit	Study report (1997)	OECD Guideline 402
	inhalation (4 h) vapour	LC50	3587 mg/l	Mouse	Study report (1998)	OECD Guideline 403
	inhalation dust/mist	ATE	1,5 mg/l			

#### Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

## Sensitising effects

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

# Carcinogenic/mutagenic/toxic effects for reproduction

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



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#### 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.

### Specific effects in experiment on an animal

No data available

# Additional information on tests

No data available

#### Practical experience No data available

## 11.2. Information on other hazards

#### Other information

Headache Dyspnoea Irritant Vomiting Spasms Unconsciousness Respiratory complaints Cardiac arrhythmias Dizziness Release of: Hydrogen cyanide (hydrocyanic acid)

## **Further information**

No data available

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
75-05-8	acetonitrile							
	Acute fish toxicity	LC50 mg/l	1640	96 h	Pimephales promelas	Review article or handbook (1984)	Guideline not specified	
	Acute algae toxicity	ErC50 mg/l	3560	72 h	Phaeodactylum tricornutum	Study report (2010)	ISO 10253	
	Acute crustacea toxicity	EC50 mg/l	3600	48 h	Daphnia magna	Bull. Environ. Contam. Toxicol. 57:655-6	other: OECD Guidelines for Testing Chemi	
	Fish toxicity	NOEC	102 mg/l	7 d	Oryzias latipes	Study report (1996)	OECD Guideline 204	
	Crustacea toxicity	NOEC	960 mg/l	21 d	Daphnia magna	Study report (1996)	other: OECD Guideline 202	

### 12.2. Persistence and degradability

70 %; 21 d OECD-310

Readily biodegradable (according to OECD criteria).

### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.



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## Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
75-05-8	acetonitrile	0,29
BCF		

CAS No	Chemical name	BCF	Species	Source
75-05-8	acetonitrile	3		HSDB (2009)

#### 12.4. Mobility in soil

log Koc: 1,21 (MSDS)

#### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

No data available

#### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

#### 12.7. Other adverse effects

Discharge into the environment must be avoided.

#### **Further information**

Do not empty into drains.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains. Do not mix with other wastes.

## Contaminated packaging

Handle contaminated packages in the same way as the substance itself. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

## **SECTION 14: Transport information**

#### Land transport (ADR/RID)

14.1. UN number or ID number:	UN 1648
14.2. UN proper shipping name:	ACETONITRILE
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Classification code:	F1
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	33
Tunnel restriction code:	D/E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 1648
14.2. UN proper shipping name:	ACETONITRILE
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Classification code:	F1



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Excepted quantity:	E2		
Marine transport (IMDG)			
14.1. UN number or ID number:	UN 1648		
14.2. UN proper shipping name:			
14.3. Transport hazard class(es):	3		
14.4. Packing group:	U		
Hazard label:	3		
Special Provisions:	5		
Limited quantity:	- 1L		
Excepted quantity:	E2		
EmS:	F-E, S-D		
	1-L, O-D		
Air transport (ICAO-TI/IATA-DGR)			
14.1. UN number or ID number:	UN 1648		
14.2. UN proper shipping name:	ACETONITRILE		
14.3. Transport hazard class(es):	3		
14.4. Packing group:			
Hazard label:	3		
Limited quantity Passenger:	1 L		
Passenger LQ:	Y341		
Excepted quantity:	E2		
IATA-packing instructions - Passenger:		353	
IATA-max. quantity - Passenger:		5 L	
IATA-packing instructions - Cargo:		364 50 L	
IATA-max. quantity - Cargo: 14.5. Environmental hazards	C	50 L	
ENVIRONMENTALLY HAZARDOUS:	No		
14.6. Special precautions for user Warning: Combustible liquid.			
14.7. Maritime transport in bulk according to	IMO instruments		
not applicable	into matrumenta		
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regul	ations/legislation speci	ific for the substance or mixture	
EU regulatory information			
Restrictions on use (REACH, annex XVII):			
Entry 3, Entry 40, Entry 75			
Information according to 2012/18/EU	P5c FLAMMABLE LIQ	פחווות	
(SEVESO III):			
National regulatory information			
Employment restrictions:	Observe restrictions to	employment for juveniles according to the 'juve	nile
Employment restrictions.		ine' (94/33/EC). Observe employment restriction	
		otection Directive (92/85/EEC) for expectant or	-
	nursing mothers.		
Water hazard class (D):	2 - obviously hazardou	us to water	
Skin resorption/Sensitization:	-	ugh outer skin and causes poisoning.	
	i onnoacos casily illioi	agn oator stan and oddsos poisoning.	

# **SECTION 16: Other information**

# Changes

This data sheet contains changes from the previous version in section(s): 15.



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## Abbreviations and acronyms

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% Flam. Liq: Flammable liquid Acute Tox: Acute toxicity Eye Irrit: Eye irritation

## Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.