

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Acetonitrile LC-MS > 99.9 %

Revision date: 03.11.2023

Product code: 33008

Page 1 of 14

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

### 1.1. Product identifier

Acetonitrile LC-MS > 99.9 %

### 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).

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

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	

### 1.4. Emergency telephone number:

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

### Further Information

This product is a mixture. REACH Registration Number see section 3.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Flam. Liq. 2; H225  
Acute Tox. 4; H302  
Acute Tox. 4; H312  
Acute Tox. 4; H332  
Skin Irrit. 2; H315  
Eye Dam. 1; H318  
Resp. Sens. 1; H334  
Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### Regulation (EC) No 1272/2008

#### Hazard components for labelling

pyridine  
phthalic anhydride

**Signal word:** Danger

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Acetonitrile LC-MS > 99.9 %**

Revision date: 03.11.2023

Product code: 33008

Page 2 of 14

**Pictograms:**



**Hazard statements**

- H225 Highly flammable liquid and vapour.
- H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Precautionary statements**

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER/doctor.
- P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

**2.3. Other hazards**

No information available.

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

**3.2. Mixtures**

**Relevant ingredients**

CAS No	Chemical name	Quantity
	EC No Index No REACH No	
	Classification (Regulation (EC) No 1272/2008)	
110-86-1	pyridine	85 - < 90 %
	203-809-9 613-002-00-7 01-2119493105-40	
	Flam. Liq. 2, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H225 H332 H312 H302 H315 H319	
85-44-9	phthalic anhydride	10 - < 15 %
	201-607-5 607-009-00-4	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Resp. Sens. 1, Skin Sens. 1, STOT SE 3; H302 H315 H318 H334 H317 H335	

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

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

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
110-86-1	203-809-9	pyridine	85 - < 90 %
		inhalation: LC50 = 4900 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = > 1000 - < 2000 mg/kg; oral: LD50 = > 800 - < 1600 mg/kg	
85-44-9	201-607-5	phthalic anhydride	10 - < 15 %
		oral: LD50 = 1530 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).

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Acetonitrile LC-MS > 99.9 %

Revision date: 03.11.2023

Product code: 33008

Page 3 of 14

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

###### General information

Self-protection of the first aider

###### After inhalation

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.

###### After contact with skin

Wash immediately with: Water

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

Irritant

Dyspnoea

Cough

Anaesthetic state

Gastrointestinal complaints

Vomiting

Cardiac arrhythmias / Circulatory collapse

Headache

Allergic reactions

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

No data available

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

###### Suitable extinguishing media

Water spray jet, Carbon dioxide (CO<sub>2</sub>), 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:

Nitrogen oxides (NO<sub>x</sub>)

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.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Acetonitrile LC-MS > 99.9 %

Revision date: 03.11.2023

Product code: 33008

Page 4 of 14

#### 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

#### 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).

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Acetonitrile LC-MS > 99.9 %**

Revision date: 03.11.2023

Product code: 33008

Page 5 of 14

Do not breathe gas/fumes/vapour/spray. 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 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.

**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/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
85-44-9	Phthalic anhydride	1	-		TWA (8 h)	
		-	12		STEL (15 min)	
110-86-1	Pyridine	5	15		TWA (8 h)	
		10	30		STEL (15 min)	

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Acetonitrile LC-MS > 99.9 %**

Revision date: 03.11.2023

Product code: 33008

Page 6 of 14

**DNEL/DMEL values**

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
110-86-1	pyridine		
Consumer DNEL, long-term	oral	systemic	0,07 mg/kg bw/day
Worker DNEL, acute	inhalation	systemic	7,5 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	0,14 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	0,42 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,6 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	0,07 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	2,5 mg/m <sup>3</sup>
85-44-9	phthalic anhydride		
Worker DNEL, long-term	inhalation	systemic	32,2 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	10 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	8,6 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	5 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	5 mg/kg bw/day

**PNEC values**

CAS No	Substance	
Environmental compartment	Value	
110-86-1	pyridine	
Freshwater	0,3 mg/l	
Freshwater (intermittent releases)	3 mg/l	
Marine water	0,03 mg/l	
Freshwater sediment	3,2 mg/kg	
Marine sediment	0,32 mg/kg	
Micro-organisms in sewage treatment plants (STP)	2 mg/l	
Soil	0,46 mg/kg	
85-44-9	phthalic anhydride	
Freshwater	1 mg/l	
Freshwater (intermittent releases)	5,6 mg/l	
Marine water	0,1 mg/l	
Freshwater sediment	3,8 mg/kg	
Marine sediment	0,38 mg/kg	
Micro-organisms in sewage treatment plants (STP)	10 mg/l	
Soil	0,173 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.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Acetonitrile LC-MS > 99.9 %

Revision date: 03.11.2023

Product code: 33008

Page 7 of 14

#### 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](mailto:vertrieb@kcl.de) With specification (test according to EN374):

By long-term hand contact: No data available

By short-term hand contact

Trade name/designation: KCL 898 Butoject®

Suitable material: Butyl caoutchouc (butyl rubber) 0,7 mm

Wearing time with occasional contact (splashes): > 300 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](http://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

##### 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

## SECTION 9: Physical and chemical properties

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

Physical state:	Liquid	
Colour:	clear	
Odour:	pungent	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and boiling range:		~115 °C
Flammability:		not applicable
Lower explosion limits:		~1,7 vol. %
Upper explosion limits:		~10,6 vol. %
Flash point:		~17 °C
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value:		No data available
Viscosity / kinematic:		No data available
Water solubility:		No data available
Solubility in other solvents		
not determined		
Dissolution rate:		No data available
Partition coefficient n-octanol/water:		No data available
Dispersion stability:		No data available
Vapour pressure:		No data available

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Acetonitrile LC-MS > 99.9 %

Revision date: 03.11.2023

Product code: 33008

Page 8 of 14

Vapour pressure:	No data available
Density:	1,0163 g/cm <sup>3</sup>
Relative density:	No data available
Bulk density:	No data available
Relative vapour density:	No data available
Particle characteristics:	No data available

#### 9.2. Other information

##### Information with regard to physical hazard classes

###### Explosive properties

Vapours may form explosive mixtures with air.

###### Sustaining combustion:

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:

No data available

###### 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:

(at 25 °C)

No data available

###### Flow time:

No data available

##### Further Information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Vapours may form explosive mixtures with air.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Danger of explosion: Nitrogen oxides (NO<sub>x</sub>), perchloric acid

Exothermic reaction with: Fluorine, sulphuric acid, silver perchlorate

Ignition hazard: Oxidising agent, Nitric acid

chromium trioxide, acid anhydride, perchromates, oleum

### 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

Plastic articles

Rubber articles

Metal articles

### 10.6. Hazardous decomposition products

SECTION 5: Firefighting measures



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Acetonitrile LC-MS > 99.9 %**

Revision date: 03.11.2023

Product code: 33008

Page 9 of 14

**Further information**

No data available

**SECTION 11: Toxicological information**

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

**Toxicokinetics, metabolism and distribution**

There are no data available on the mixture itself.

**Acute toxicity**

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

**ATEmix calculated**

ATE (oral) 545,9 mg/kg; ATE (dermal) 1257 mg/kg; ATE (inhalation vapour) 12,57 mg/l; ATE (inhalation dust/mist) 1,714 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
110-86-1	pyridine				
	oral	LD50 > 800 - < 1600 mg/kg	Rat	Study report (1978)	Precedes establishment of guideline and
	dermal	LD50 > 1000 - < 2000 mg/kg	Rabbit	Study report (1973)	OECD Guideline 402
	inhalation (4 h) vapour	LC50 4900 mg/l	Rat	Other company data (1984)	EPA OPPTS 870.1300
	inhalation dust/mist	ATE 1,5 mg/l			
85-44-9	phthalic anhydride				
	oral	LD50 1530 mg/kg	Rat	Study report (1978)	10 male rats/dose

**Irritation and corrosivity**

Causes skin irritation.  
Causes serious eye damage.

**Sensitising effects**

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (phthalic anhydride)  
May cause an allergic skin reaction. (phthalic anhydride)

**Carcinogenic/mutagenic/toxic effects for reproduction**

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.

**Information on likely routes of exposure**

There are no data available on the mixture itself.

**Specific effects in experiment on an animal**

There are no data available on the mixture itself.

**Additional information on tests**

There are no data available on the mixture itself.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Acetonitrile LC-MS > 99.9 %**

Revision date: 03.11.2023

Product code: 33008

Page 10 of 14

**Practical experience**

There are no data available on the mixture itself.

**11.2. Information on other hazards**

**Endocrine disrupting properties**

There are no data available on the mixture itself.

**Other information**

There are no data available on the mixture itself.

**Further information**

- Irritant
- Dyspnoea
- Cough
- Anaesthetic state
- Gastrointestinal complaints
- Vomiting
- Cardiac arrhythmias / Circulatory collapse
- Headache
- Allergic reactions

**SECTION 12: Ecological information**

**12.1. Toxicity**

There are no data available on the mixture itself.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
110-86-1	pyridine					
	Acute fish toxicity	LC50 > 560 - < 1000 mg/l	96 h	Danio rerio	Study report (1991)	OECD Guideline 203
	Acute algae toxicity	ErC50 320 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (1991)	OECD Guideline 201
85-44-9	phthalic anhydride					
	Acute fish toxicity	LC50 > 99 mg/l	96 h	Oryzias latipes	Review article or handbook (2003)	OECD Guideline 203
	Acute algae toxicity	ErC50 68 mg/l	72 h	Pseudokirchneriella subcapitata	Review article or handbook (2003)	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 640 mg/l	48 h	Daphnia magna	Publication (1986)	Method is following the procedures descr
	Fish toxicity	NOEC 10 mg/l	60 d	Oncorhynchus mykiss	Ecotoxicology and Environmental Safety 2	Method: other: according to OECD Guideli
	Crustacea toxicity	NOEC 16 mg/l	21 d	Daphnia magna	Review article or handbook (2003)	OECD Guideline 211
	Acute bacteria toxicity	EC50 > 1000 mg/l ( )	3 h	Activated sludge	Study report (1984)	ISO 8192

**12.2. Persistence and degradability**

There are no data available on the mixture itself.

**12.3. Bioaccumulative potential**

There are no data available on the mixture itself.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Acetonitrile LC-MS &gt; 99.9 %

Revision date: 03.11.2023

Product code: 33008

Page 11 of 14

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
110-86-1	pyridine	0,64
85-44-9	phthalic anhydride	1,6

**BCF**

CAS No	Chemical name	BCF	Species	Source
85-44-9	phthalic anhydride	3,4	calculated	Study report (2004)

**12.4. Mobility in soil**

There are no data available on the mixture itself.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**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.

**Contaminated packaging**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b>14.1. UN number or ID number:</b>	UN 2924
<b>14.2. UN proper shipping name:</b>	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (pyridine, phthalic anhydride)
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	II
Hazard label:	3+8
Classification code:	FC
Special Provisions:	274
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	338
Tunnel restriction code:	D/E

**Inland waterways transport (ADN)**

<b>14.1. UN number or ID number:</b>	UN 2924
<b>14.2. UN proper shipping name:</b>	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (pyridine, phthalic anhydride)
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	II

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Acetonitrile LC-MS > 99.9 %**

Revision date: 03.11.2023

Product code: 33008

Page 12 of 14

Hazard label: 3+8  
 Classification code: FC  
 Special Provisions: 274  
 Limited quantity: 1 L  
 Excepted quantity: E2

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 2924  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, CORROSIVE, N.O.S. (pyridine, phthalic anhydride)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3+8  
 Special Provisions: 274  
 Limited quantity: 1 L  
 Excepted quantity: E2  
 EmS: F-E, S-C

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** UN 2924  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, CORROSIVE, N.O.S. (pyridine, phthalic anhydride)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3+8  
 Special Provisions: A3  
 Limited quantity Passenger: 0.5 L  
 Passenger LQ: Y340  
 Excepted quantity: E2  
 IATA-packing instructions - Passenger: 352  
 IATA-max. quantity - Passenger: 1 L  
 IATA-packing instructions - Cargo: 363  
 IATA-max. quantity - Cargo: 5 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Warning: Combustible liquid.

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

not applicable

**SECTION 15: Regulatory information**

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

**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

Information according to Directive 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

Skin resorption/Sensitization: Permeates easily through outer skin and causes poisoning.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Acetonitrile LC-MS > 99.9 %**

Revision date: 03.11.2023

Product code: 33008

Page 13 of 14

**SECTION 16: Other information**

**Changes**

This data sheet contains changes from the previous version in section(s): 9,12.

**Abbreviations and acronyms**

Flam. Liq: Flammable liquid

Acute Tox: Acute toxicity

Skin Irrit: Skin irritation

Eye Dam: Eye damage

Eye Irrit: Eye irritation

Resp. Sens: Respiratory sensitisation

Skin Sens: Skin sensitisation

STOT SE: Specific target organ toxicity - single exposure

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

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

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Acute Tox. 4; H302	Calculation method
Acute Tox. 4; H312	Calculation method
Acute Tox. 4; H332	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Dam. 1; H318	Calculation method
Resp. Sens. 1; H334	Calculation method
Skin Sens. 1; H317	Calculation method

**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.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

**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.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Acetonitrile LC-MS > 99.9 %**

Revision date: 03.11.2023

Product code: 33008

Page 14 of 14

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*