

Dilutor, THM-100

Revision date: 02/23/2024 Product code: 1-104995 Page 1 of 12

#### 1. Identification

#### **Product identifier**

Dilutor, THM-100

Substance name: acetonitrile; cyanomethane REACH Registration Number: 01-2119471307-38-XXXX

CAS No: 75-05-8
Index No: 608-001-00-3
EC No: 200-835-2

#### Recommended use of the chemical and restrictions on use

#### 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).

## Details of the supplier of the safety data sheet

Company name: AnalytiChem GmbH

ACD

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

Emergency phone 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**

No data available

# 2. Hazard(s) identification

# Classification of the chemical

# 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.

## Label elements

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

# Hazard components for labelling

acetonitrile

Signal word: Danger

## Dilutor, THM-100

Revision date: 02/23/2024 Product code: 1-104995 Page 2 of 12

#### Pictograms:





#### **Hazard statements**

H225 Highly flammable liquid and vapor

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled

H319 Causes serious eye irritation

#### **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing and eye protection/face protection.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P304+P341 If inhaled: If breathing is difficult, 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.

P312 Call a poison center/doctor if you feel unwell.

P330 Rinse mouth.

P337+P313 If eye irritation persists: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use sand, extinguishing powder or alcohol-resistant foam to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to an approved waste disposal plant.

#### **Hazards not otherwise classified**

No data available

## 3. Composition/information on ingredients

### **Substances**

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

#### Relevant ingredients

CAS No	Components	Components				
	EC No	Index No	REACH No			
	Classification (Regulation (EC) No 1272/2008)					
75-05-8	acetonitrile	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.

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Revision date: 02/23/2024 Product code: 1-104995 Page 3 of 12

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Components	Quantity	
	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).

#### 4. First-aid measures

#### Description of first aid measures

#### **General information**

No data available

#### After inhalation

Provide fresh air.

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.

## 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)

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

Release of: Hydrogen cyanide (hydrocyanic acid)

## 5. Fire-fighting measures

## **Extinguishing media**

#### Suitable extinguishing media

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

#### Unsuitable extinguishing media

no restriction

## Specific hazards arising from the chemical

Combustible liquid.

Vapors are heavier than air, spread along floors and form explosive mixtures with air.



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Dilutor, THM-100

Revision date: 02/23/2024 Product code: 1-104995 Page 4 of 12

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.

#### Special protective equipment and precautions for fire-fighters

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.

Supress gases/vapors/mists with water spray jet.

Move undamaged containers from immediate hazard area if it can be done safely.

#### 6. Accidental release measures

#### 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 precautionary measures against static discharge.

#### For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

**Emergency procedures** 

Consult an expert

Do not breathe dust/fume/gas/mist/vapors/spray.

## For emergency responders

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

# **Environmental precautions**

Do not allow to enter into surface water or drains.

The vapors are heavier than air and can accumulate in high concentrations on the ground, in cavities, channels and cellars.

Danger of explosion

#### 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/vapors/spray.

Wear breathing apparatus if exposed to vapors/dusts/aerosols.



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Dilutor, THM-100

Revision date: 02/23/2024 Product code: 1-104995 Page 5 of 12

#### Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

# 7. Handling and storage

#### **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 vapor or 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.

Vapors may 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.

## 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.

# Hints on joint storage

national regulations

# Further information on storage conditions

Keep cool. Protect from sunlight. storage temperature: +5°C - +30°C

### Specific end use(s)

Laboratory chemicals

### 8. Exposure controls/personal protection

#### **Control parameters**

### **Exposure limits**

CAS No	Substance	ppm	mg/m³	f/cc	Category	Origin
75-05-8	Acetonitrile	40	70		TWA (8 h)	PEL
		20	34		TWA (8 h)	REL
		20			TWA (8 h)	ACGIH-2023



**Dilutor, THM-100**Product code: 1-104995

Page 6 of 12

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

Revision date: 02/23/2024

DNEL type Exposure route Effect Value  75-05-8 acetonitrile  Worker DNEL, long-term inhalation systemic 68 mg/m³  Worker DNEL, acute inhalation local 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 DNEL, long-term inhalation systemic 4,8 mg/m³  Consumer DNEL, acute inhalation local 4,8 mg/m³  Consumer DNEL, long-term inhalation local 4,8 mg/m³  Consumer DNEL, acute inhalation local 4,8 mg/m³  Consumer DNEL, acute inhalation local 22 mg/m³	CAS No	Substance			
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 DNEL, long-term inhalation systemic 4,8 mg/m³  Consumer DNEL, acute inhalation systemic 220 mg/m³  Consumer DNEL, long-term inhalation local 4,8 mg/m³  Consumer DNEL, long-term inhalation local 4,8 mg/m³  Consumer DNEL, acute inhalation local 22 mg/m³	DNEL type		Exposure route	Effect	Value
Worker DNEL, acuteinhalationsystemic68 mg/m³Worker DNEL, long-terminhalationlocal68 mg/m³Worker DNEL, acuteinhalationlocal68 mg/m³Worker DNEL, long-termdermalsystemic32,2 mg/kg bw/dayConsumer DNEL, long-terminhalationsystemic4,8 mg/m³Consumer DNEL, acuteinhalationsystemic220 mg/m³Consumer DNEL, long-terminhalationlocal4,8 mg/m³Consumer DNEL, acuteinhalationlocal22 mg/m³	75-05-8	acetonitrile			
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 DNEL, long-term inhalation systemic 4,8 mg/m³  Consumer DNEL, acute inhalation systemic 220 mg/m³  Consumer DNEL, long-term inhalation local 4,8 mg/m³  Consumer DNEL, acute inhalation local 22 mg/m³	Worker DNE	L, long-term	inhalation	systemic	68 mg/m³
Worker DNEL, acuteinhalationlocal68 mg/m³Worker DNEL, long-termdermalsystemic32,2 mg/kg bw/dayConsumer DNEL, long-terminhalationsystemic4,8 mg/m³Consumer DNEL, acuteinhalationsystemic220 mg/m³Consumer DNEL, long-terminhalationlocal4,8 mg/m³Consumer DNEL, acuteinhalationlocal22 mg/m³	Worker DNE	L, acute	inhalation	systemic	68 mg/m³
Worker DNEL, long-term  dermal  systemic  32,2 mg/kg bw/day  Consumer DNEL, long-term  inhalation  systemic  4,8 mg/m³  Consumer DNEL, acute  inhalation  systemic  220 mg/m³  Consumer DNEL, long-term  inhalation  local  4,8 mg/m³  Consumer DNEL, acute  inhalation  local  22 mg/m³	Worker DNE	L, long-term	inhalation	local	68 mg/m³
Consumer DNEL, long-term inhalation systemic 4,8 mg/m³  Consumer DNEL, acute inhalation systemic 220 mg/m³  Consumer DNEL, long-term inhalation local 4,8 mg/m³  Consumer DNEL, acute inhalation local 22 mg/m³	Worker DNE	L, acute	inhalation	local	68 mg/m³
Consumer DNEL, acute inhalation systemic 220 mg/m³  Consumer DNEL, long-term inhalation local 4,8 mg/m³  Consumer DNEL, acute inhalation local 22 mg/m³	Worker DNE	L, long-term	dermal	systemic	1 ' " "
Consumer DNEL, long-term inhalation local 4,8 mg/m³  Consumer DNEL, acute inhalation local 22 mg/m³	Consumer D	NEL, long-term	inhalation	systemic	4,8 mg/m³
Consumer DNEL, acute inhalation local 22 mg/m³	Consumer D	NEL, acute	inhalation	systemic	220 mg/m³
	Consumer D	NEL, long-term	inhalation	local	4,8 mg/m³
DIFF	Consumer D	NEL, acute	inhalation	local	22 mg/m³
Consumer DNEL, acute oral systemic 0,6 mg/kg bw/d	Consumer D	NEL, acute	oral	systemic	0,6 mg/kg bw/day

#### **PNEC** values

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

#### **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**

When handling with 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 the supplier of these gloves.

# 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

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.



#### Dilutor, THM-100

Revision date: 02/23/2024 Product code: 1-104995 Page 7 of 12

#### Thermal hazards

No data available

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

Due to danger of explosion, prevent leakage of vapors into cellars, flues and ditches.

Danger of explosion

## 9. Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state: Liquid
Color: colorless
Odor: like: Ether
Odour threshold: No data available

Melting point/freezing point: -45,7 °C
Boiling point or initial boiling point and 81,6 °C

boiling range:

Flammability: No data available 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 Soluble in: Water Water solubility:

Solubility in other solvents

not determined

Dissolution rate:

Partition coefficient n-octanol/water:

Dispersion stability:

Vapor pressure:

No data available

log Pow: 0,29

No data available

97 hPa

(at 20 °C)

Vapor pressure: 330 hPa hPa

(at 50 °C)

Density: 0,786 g/cm³
Relative density: No data available
Bulk density: No data available
Relative vapour density: No data available
Particle characteristics: No data available

#### Other information

## Information with regard to physical hazard classes

Explosive properties

Vapors are heavier than air, spread along floors and 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



AnalytiChem GmbH

Dilutor, THM-100

Revision date: 02/23/2024 Product code: 1-104995 Page 8 of 12

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
No data available

# 10. Stability and reactivity

## **Chemical stability**

Keep away from heat.

#### 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

#### Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Vapors may form explosive mixtures with air.

## **Incompatible materials**

Rubber articles
Plastic articles

# **Hazardous decomposition products**

SECTION 5: Fire fighting measures

# **Further information**

No data available

## 11. Toxicological information

## Information on toxicological effects

#### Toxicocinetics, metabolism and distribution

No data available

# **Acute toxicity**

Harmful if swallowed

Harmful in contact with skin

Harmful if inhaled

Mucous membrane irritations in the mouth, throat, esophagus and gastrointestinal tract.

0

Revision date: 02/23/2024 Product code: 1-104995 Page 9 of 12

CAS No	Components	Components							
	Exposure route	Dose		Species	Source	Method			
75-05-8	acetonitrile	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

Serious eye damage/eye irritation: Causes serious eye irritation

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

## Sensitizing effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

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

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

## Specific target organ toxicity (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.

# Route(s) of Entry

No data available

# Specific effects in experiment on an animal

No data available

#### Additional information on tests

No data available

# **Practical experience**

No data available

#### Information on other hazards

#### **Endocrine disrupting properties**

No data available

#### Other information

Headache

Dyspnoea

Irritant

Vomiting Spasms

Unconsciousness

Respiratory complaints

Cardiac arrhythmias

Dizziness

Release of: Hydrogen cyanide (hydrocyanic acid)

#### **Further information**

No data available

Dilutor, THM-100

Revision date: 02/23/2024 Product code: 1-104995 Page 10 of 12

### 12. Ecological information

## **Ecotoxicity**

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

CAS No	Components								
	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		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		

## Persistence and degradability

70 %; 21 d

**OECD-310** 

Readily biodegradable (according to OECD criteria).

# **Bioaccumulative potential**

No indication of bioaccumulation potential.

### Partition coefficient n-octanol/water

CAS No	Components	Log Pow
75-05-8	acetonitrile	0,29

# BCF

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

## **Mobility in soil**

log Koc: 1,21 (MSDS)

### Results of PBT and vPvB assessment

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

### **Endocrine disrupting properties**

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

## Other adverse effects

Discharge into the environment must be avoided.

### **Further information**

Do not empty into drains.

## 13. Disposal considerations

## 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.



#### Dilutor, THM-100

Revision date: 02/23/2024 Product code: 1-104995 Page 11 of 12

#### 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.

# 14. Transport information

# Land transport (ADR/RID)

UN number or ID number: UN 1648

UN proper shipping name: ACETONITRILE

Transport hazard class(es): Packing group: Ш Hazard label: 3 Classification Code: F1 Limited quantity: 1 I Excepted quantity: F2 Transport category: 2 33 Hazard No: Tunnel restriction code: D/E

## Inland waterways transport (ADN)

UN 1648

UN proper shipping name: ACETONITRILE

Transport hazard class(es):3Packing group:IIHazard label:3Classification Code:F1Limited quantity:1 LExcepted quantity:E2

# Marine transport (IMDG)

UN number or ID number: UN 1648

UN proper shipping name: ACETONITRILE

Transport hazard class(es):3Packing group:IIHazard label:3Special Provisions:-Limited quantity:1 LExcepted quantity:E2EmS:F-E, S-D

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

UN 1648
UN proper shipping name: UN 1648
ACETONITRILE

Transport hazard class(es):3Packing group:IIHazard label:3Limited quantity Passenger:1 LPassenger LQ:Y341Excepted quantity:E2

IATA-packing instructions - Passenger: 353
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

#### **Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

### Special precautions for user



AnalytiChem GmbH

Dilutor, THM-100

Revision date: 02/23/2024 Product code: 1-104995 Page 12 of 12

Warning: Combustible liquid.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

## 15. Regulatory information

## 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, Entry 75

Information according to Directive

2012/18/EU (SEVESO III):

P5c FLAMMABLE LIQUIDS

#### National regulatory information

Employment restrictions: Observe employment restrictions for young people.

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

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

#### 16. Other information

#### Abbreviations and acronyms

Flam. Liq: Flammable liquids Acute Tox: Acute toxicity Eye Irrit: Eye irritation

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%

# Relevant H statements (full text)

H225 Highly flammable liquid and vapor

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 eve irritation

H332 Harmful if inhaled

#### Other data

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. Provide appropriate information, instructions and training to users.