

according to Regulation (EC) No 1907/2006

## Acetonitrile, 250 ml

Print date: 14.04.2015 Product code: 9991011 Page 1 of 9

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

#### 1.1. Product identifier

Acetonitrile, 250 ml

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 chemicals

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

Seller

Company name: CONATEX-DIDACTIC Lehrmittel GmbH

Street: Im Forstgarten 1
Place: D-66459 Kirkel
Internet: www.conatex.com

**Supplier** 

Company name: Carbolution Chemicals GmbH Street: Im Stadtwald, Gebäude A1.2

Place: D-66123 Saarbrücken

Contact person: Dr. Michael Bauer Telephone: +49 (0)681 302-71232

e-mail: michael.bauer@carbolution-chemicals.de

Internet: www.carbolution-chemicals.de

**1.4. Emergency telephone** +49 (0)681 302-71232

number:

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

## 2.1. Classification of the substance or mixture

# Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: F - Highly flammable, Xn - Harmful, Xi - Irritant

R phrases: Highly flammable.

Harmful by inhalation, in contact with skin and if swallowed.

Irritating to eyes.

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Flammable liquid: Flam. Liq. 2 Acute toxicity: Acute Tox. 4 Acute toxicity: Acute Tox. 4 Acute toxicity: Acute Tox. 4

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Highly flammable liquid and vapour.

Harmful if inhaled.

Harmful in contact with skin. Harmful if swallowed.

Causes serious eye irritation.



according to Regulation (EC) No 1907/2006

## Acetonitrile, 250 ml

Print date: 14.04.2015 Product code: 9991011 Page 2 of 9

#### 2.2. Label elements

#### Hazardous components which must be listed on the label

acetonitrile, cyanomethane

Signal word: Danger

Pictograms: GHS02-GHS06





#### **Hazard statements**

H225 Highly flammable liquid and vapour.
H302+H332 Harmful if swallowed or if inhaled.
H311 Toxic in contact with skin.
H319 Causes serious eve irritation.

## **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smokina

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

## 2.3. Other hazards

No information available.

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

#### 3.1. Substances

Sum formula: C2H3N Molecular weight: 41,05

#### **Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
200-835-2	acetonitrile, cyanomethane	100 %
75-05-8	F - Highly flammable, Xn - Harmful, Xi - Irritant R11-20/21/22-36	
608-001-00-3	Flam. Liq. 2, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2; H225 H332 H312 H302 H319	

Full text of R-, H- and EUH-phrases: see section 16.

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

#### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

Wash with plenty of water. Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary.

# 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.



according to Regulation (EC) No 1907/2006

#### Acetonitrile, 250 ml

Print date: 14.04.2015 Product code: 9991011 Page 3 of 9

#### After ingestion

Rinse mouth immediately and drink plenty of water. Medical treatment necessary.

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

No information available.

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

Treat symptomatically.

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

#### 5.1. Extinguishing media

# Suitable extinguishing media

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

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

Flammable. Vapours can form explosive mixtures with air.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

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

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### 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

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### 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.

#### 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.

## Advice on storage compatibility

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

#### Further information on storage conditions

Store in a cool dry place.



according to Regulation (EC) No 1907/2006

## Acetonitrile, 250 ml

Print date: 14.04.2015 Product code: 9991011 Page 4 of 9

Protect against: moisture.

## 7.3. Specific end use(s)

none

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

#### 8.1. Control parameters

#### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
75-05-8	Acetonitrile	40	68		TWA (8 h)	WEL
		60	102		STEL (15 min)	WEL

#### 8.2. Exposure controls

#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### 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 or drink.

#### 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

In case of inadequate ventilation wear respiratory protection.

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

## 9.1. Information on basic physical and chemical properties

Physical state: liquid Colour: colourless

Test method

pH-Value: not determined

Changes in the physical state

Melting point:  $-48 \, ^{\circ} C$  Initial boiling point and boiling range:  $81 \, ^{\circ} C$  Flash point:  $2 \, ^{\circ} C$ 

Flammability

Solid: not applicable
Gas: not applicable
Lower explosion limits: 3 vol. %

 Revision No: 1,00
 GB - EN
 Revision date: 24.03.2015

Page 5 of 9



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Acetonitrile, 250 ml	
Product code: 9991011	

Print date: 14.04.2015 Product code: 9991011

Upper explosion limits: 16 vol. %

**Auto-ignition temperature** 

Solid: not applicable
Gas: 524 °C

Decomposition temperature: not determined

**Oxidizing properties** 

Not oxidizing.

Vapour pressure: 98,6 hPa

(at 20 °C)

Vapour pressure: 413,23 hPa

(at 55 °C)

Density (at 25 °C): 0,786 g/cm³
Water solubility: easily soluble

Solubility in other solvents

not determined

Partition coefficient: -0,54
Vapour density: 1,42
Evaporation rate: not determined

9.2. Other information

Solid content: not determined

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Flammable, Ignition hazard.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

## 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

No information available.

## 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects



according to Regulation (EC) No 1907/2006

# Acetonitrile, 250 ml

Print date: 14.04.2015 Product code: 9991011 Page 6 of 9

#### **Acute toxicity**

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
75-05-8	acetonitrile, cyanomethane				
	oral	ATE	500 mg/kg		
	dermal	LD50	988 mg/kg	Kaninchen	
	inhalative vapour	ATE	11 mg/l		
	inhalative aerosol	ATE	1,5 mg/l		

#### Additional information on tests

This mixture is classified as hazardous according to 1999/45/EC.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source
75-05-8	acetonitrile, cyanomethane					
	Acute fish toxicity	LC50	1640 mg/l	96 h	Pimephales promelas	

#### 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
75-05-8	acetonitrile, cyanomethane	-0,34

# 12.4. Mobility in soil

The product has not been tested.

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

The product has not been tested.

#### 12.6. Other adverse effects

No information available.

#### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

# Advice on disposal

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

#### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**



according to Regulation (EC) No 1907/2006

Acetonitrile, 250 ml
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Print date: 14.04.2015 Product code: 9991011 Page 7 of 9

## Land transport (ADR/RID)

**14.1. UN number:** UN 1648

14.2. UN proper shipping name: ACETONITRILE

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3Classification code:F1Limited quantity:1 LTransport category:2Hazard No:33Tunnel restriction code:D/E

# Other applicable information (land transport)

F2

## Inland waterways transport (ADN)

**14.1. UN number:** UN 1648

14.2. UN proper shipping name: ACETONITRILE

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3Classification code:F1Limited quantity:1 L

# Other applicable information (inland waterways transport)

E2

## Marine transport (IMDG)

**14.1. UN number:** UN 1648

14.2. UN proper shipping name: ACETONITRILE

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3Special Provisions:-Limited quantity:1 LEmS:F-E, S-D

## Other applicable information (marine transport)

F2

# Air transport (ICAO)

**14.1. UN number:** UN 1648

14.2. UN proper shipping name: ACETONITRILE

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3Limited quantity Passenger:1 L

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



according to Regulation (EC) No 1907/2006

# Acetonitrile, 250 ml

Print date: 14.04.2015 Product code: 9991011 Page 8 of 9

## Other applicable information (air transport)

E2 : Y341

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

#### 14.6. Special precautions for user

No information available.

# 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the 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

2004/42/EC (VOC): 100 %

**Additional information** 

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC

#### **National regulatory information**

Employment restrictions: Observe employment restrictions for young people. Observe employment

restrictions for child bearing mothers and nursing.

Water contaminating class (D): 2 - water contaminating

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

## 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

#### **SECTION 16: Other information**

# 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%

#### Relevant R-phrases (Number and full text)

11 Highly flammable.

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

Causes serious eve irritation.

36 Irritating to eyes.

H319

# Relevant H- and EUH-phrases (Number and full text)

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H302+H332 Harmful if swallowed or if inhaled.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.

H332 Harmful if inhaled.





according to Regulation (EC) No 1907/2006

# Acetonitrile, 250 ml

Print date: 14.04.2015 Product code: 9991011 Page 9 of 9

## **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.