

## according to Regulation (EC) No 1907/2006

Acetonitrile, 100 ml							
Print date: 14.04.2015	Product code: 9991010	Page 1 of					
SECTION 1: Identification of the substance/mixture and of the company/undertaking							
1.1. Product identifier							
Acetonitrile, 100 ml							
REACH Registration Number:	01-2119471307-38-XXXX						
CAS No:	75-05-8						
Index No: EC No:	608-001-00-3						
	200-835-2						
	ubstance or mixture and uses advised agai	nst					
Use of the substance/mixture							
Laboratory chemicals							
<b>1.3. Details of the supplier of the safe</b>	ety 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, 100 ml	
Print date: 14.04.2015	Product code: 9991010	Page 2 of
.2. Label elements		
•	n <b>ts which must be listed on the label</b> le, cyanomethane	
Signal word:	Danger	
Pictograms:	GHS02-GHS06	
Hazard statements		
H225	Highly flammable liquid and vapour.	
H225 H302+H332	Harmful if swallowed or if inhaled.	
H225		
H225 H302+H332 H311 H319	Harmful if swallowed or if inhaled. Toxic in contact with skin. Causes serious eye irritation.	
H225 H302+H332 H311	Harmful if swallowed or if inhaled. Toxic in contact with skin. Causes serious eye irritation.	
H225 H302+H332 H311 H319 Precautionary statem	Harmful if swallowed or if inhaled. Toxic in contact with skin. Causes serious eye irritation. ents Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No	
H225 H302+H332 H311 H319 <b>Precautionary statem</b> P210 P280 .3. Other hazards	Harmful if swallowed or if inhaled. Toxic in contact with skin. Causes serious eye irritation. ents Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	

## 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, 100 ml

Print date: 14.04.2015

Product code: 9991010

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, 100 ml

Print date: 14.04.2015

Product code: 9991010

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 °C	
Initial boiling point and boiling range:		81 °C	
Flash point:		2 °C	
Flammability			
Solid:		not applicable	
Gas:		not applicable	
Lower explosion limits:		3 vol. %	



## according to Regulation (EC) No 1907/2006

	Acetonitrile, 100 ml	
Print date: 14.04.2015	Product code: 9991010	Page 5 of 9
Upper explosion limits:	16 vol. %	
Auto-ignition temperature		
Solid:	not applicable	
Gas:	524 °C	
Decomposition temperature:	not determined	
Oxidizing properties Not oxidizing.		
Vapour pressure: (at 20 °C)	98,6 hPa	
Vapour pressure: (at 55 °C)	413,23 hPa	
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, 100 ml

Print date: 14.04.2015

Product code: 9991010

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

	Acetonitril	e, 100 ml	
Print date: 14.04.2015	Product code	: 9991010	Page 7 of 9
Land transport (ADR/RID)			
<u>14.1. UN number:</u>	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		
Transport category:	2		
Hazard No:	33		
Tunnel restriction code:	D/E		
Other applicable information (land trans E2	port)		
Inland waterways transport (ADN)			
<u>14.1. UN number:</u>	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		
Other applicable information (inland wated by E2	terways transport)		
Marine transport (IMDG)			
<u>14.1. UN number:</u>	UN 1648		
14.2. UN proper shipping name:	ACETONITRILE		
14.3. Transport hazard class(es):	3		
14.4. Packing group:	II		
Hazard label:	3		
Special Provisions:	-		
Limited quantity:	1L		
EmS:	F-E, S-D		
Other applicable information (marine tra E2	insport)		
Air transport (ICAO)			
<u>14.1. UN number:</u>	UN 1648		
14.2. UN proper shipping name:	ACETONITRILE		
14.3. Transport hazard class(es):	3		
14.4. Packing group:	II		
Hazard label:	3		
Limited quantity Passenger:	1 L		
IATA-packing instructions - Passenger:		353	
IATA-max. quantity - Passenger:		5 L	
IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:		364 60 L	
ann max. quantity - Oalgo.			



# according to Regulation (EC) No 1907/2006

		according to Regulation (EC) No 1907/2006	
		Acetonitrile, 100 ml	
Print date: 14.04.2015		Product code: 9991010	Page 8 of 9
	formation (air transp	ort)	
E2 : Y341			
14.5. Environmental ha	azards		
ENVIRONMENTALL	Y HAZARDOUS:	no	
14.6. Special precaution	o <mark>ns for user</mark> rmation available.		
		II of MARPOL73/78 and the IBC Code	
not app			
SECTION 15: Regula	tory information		
15.1. Safety, health and	d environmental regu	lations/legislation specific for the substance or mixture	
EU regulatory infor	mation		
2004/42/EC (VOC):		100 %	
Additional informat		117/EEC , 689/2008/EC	
National regulatory			
Employment restrict		Observe employment restrictions for young people. Observe employment	
Water contaminating	u class (D) <sup>,</sup>	restrictions for child bearing mothers and nursing. 2 - water contaminating	
Skin resorption/Sens		Permeates easily through outer skin and causes poisoning.	
15.2. Chemical safety a			
For this	s substance a chemica	al safety assessment has not been carried out.	
SECTION 16: Other i	nformation		
Abbreviations and	-		
	-	e transport des marchandises dangereuses par Route rning the International Carriage of Dangerous Goods by Road )	
		Code for Dangerous Goods	
	nternational Air Transp		
	-	System of Classification and Labelling of Chemicals y of Existing Commercial Chemical Substances	
ELINCS	S: European List of No	otified Chemical Substances	
	<pre>chemical Abstracts Se _ethal concentration, </pre>		
	_ethal dose, 50%		
Relevant R-phrases	s (Number and full te	xt)	
	lighly flammable.		
	rritating to eyes.	in contact with skin and if swallowed.	
	H-phrases (Number		
H225	Highly flamma Harmful if swa	able liquid and vapour.	
H302 H302+H332		allowed. allowed or if inhaled.	
H311	Toxic in conta		
H312		ntact with skin.	
H319 H332	Causes serior Harmful if inha	us eye irritation. aled.	



## according to Regulation (EC) No 1907/2006

## Acetonitrile, 100 ml

Print date: 14.04.2015

Product code: 9991010

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.