according to UK REACH Regulation

# Tetrabutylammonium phosphate monobasic solution

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

#### 1.1. Product identifier

Tetrabutylammonium phosphate monobasic solution

#### Further trade names

Tetrabutylammonium dihydrogen phosphate

Cas-Nr. 5574-97-0

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

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

Company name: ABX advanced biochemical compounds

Biomedizinische Forschungsreagenzien GmbH

Street: Heinrich-Gläser-Straße 10-14

Place: 01454 Radeberg

Telephone: +49 3528 4041 60 Telefax: +49 3528 4041 65

e-mail: info@abx.de

Contact person: Dr. Christoph Meyer Telephone: +49 3528 4041 8732

e-mail: meyer@abx.de http://www.abx.de

1.4. Emergency telephone +49 3528 4041 60

number:

## **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

#### **GB CLP Regulation**

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

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

# **GB CLP Regulation**

### Hazard components for labelling

acetonitrile; cyanomethane **Signal word:**Danger

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 statements**

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

smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

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P241	Use explosion-proof electrical/ventilating/lighting equipment.	
P242	Use non-sparking tools.	
P243	Take action to prevent static discharges.	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.	
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/eye protection/face protection/hearing protection.	
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.	
P330	Rinse mouth.	
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.	
P312	Call a POISON CENTER/doctor if you feel unwell.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P312	Call a POISON CENTER/doctor if you feel unwell.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P403+P235	Store in a well-ventilated place. Keep cool.	

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

#### 3.2. Mixtures

Sum formula: (CH3CH2CH2)4N[OP(OH)2O]

Molecular weight: 339.45

# **Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
75-05-8	acetonitrile; cyanomethane			80 - < 85 %
	200-835-2 608-001-00-3			
	Flam. Liq. 2, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2; H225 H332 H312 H302 H319			

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

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

CAS No	EC No	EC No Chemical name	
	Specific Conc. Limits, M-factors and ATE		
75-05-8	200-835-2	200-835-2 acetonitrile; cyanomethane	
	inhalation: LC50 = 11 mg/l (vapours); inhalation: LC50 = 11 mg/l (dusts or mists); dermal: LD50 = 988 mg/kg; oral: ATE = 500 mg/kg		

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

### After inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with skin

After contact with skin, wash immediately with: Water. Change contaminated clothing. Medical treatment necessary.

# After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5

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minutes. Subsequently consult an ophthalmologist.

#### After ingestion

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

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

#### Suitable extinguishing media

Water. Carbon dioxide (CO2). Foam. Extinguishing powder.

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

Combustible. Vapours may 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. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

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

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

#### General advice

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

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Explosion hazard.

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

#### Other information

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

### **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.

# Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

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

## Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Keep container in a well-ventilated place.

### Hints on joint storage

Do not store together with: Material, rich in oxygen, oxidizing.

### Further information on storage conditions

storage temperature:

of °C: 2 up to °C: 8

Protect against: Light.

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## **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.

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

## 9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless

Flash point: 2 °C

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

# 10.4. Conditions to avoid

Keep away from heat. Ignition hazard.

## **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in GB CLP Regulation

#### **Acute toxicity**

Acute toxicity, oral. Acute toxicity, inhalant. Acute toxicity, dermal.

#### **ATEmix calculated**

ATE (oral) 625,0 mg/kg; ATE (dermal) 1375,0 mg/kg; ATE (inhalation vapour) 13,75 mg/l; ATE (inhalation dust/mist) 3,437 mg/l

CAS No	Chemical name	Chemical name				
	Exposure route	Dose		Species	Source	Method
75-05-8	acetonitrile; cyanomethane					
	oral	ATE mg/kg	500			
	dermal	LD50 mg/kg	988	Rabbit	IUCLID	
	inhalation vapour	LC50	11 mg/l			
	inhalation dust/mist	LC50	11 mg/l			

# Irritation and corrosivity

Irritating to eyes.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

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

#### 12.3. Bioaccumulative potential

#### Partition coefficient n-octanol/water

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

### 12.5. Results of PBT and vPvB assessment

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

### 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.

#### **Further information**

Do not allow to enter into surface water or drains.

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

## **Disposal recommendations**

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**

I and	tranchart	(ADR/RID)

14.1. UN number or ID number: UN 1648
14.2. UN proper shipping name: ACETONITRILE

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3

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):314.4. Packing group:IIHazard label:3

Marine transport (IMDG)

**14.1. UN number or ID number:** UN 1648

14.2. UN proper shipping name: ACETONITRILE

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1648

14.2. UN proper shipping name: ACETONITRILE

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14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3

# **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, Entry 75

## **National regulatory information**

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

## **SECTION 16: Other information**

### Classification for mixtures and used evaluation method according to GB CLP Regulation

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
Eye Irrit. 2; H319	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. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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