

according to UK REACH Regulation

## Nitroimidazoles Mix; 100 µg/mL in Acetonitrile

Revision date:

Product code: NM\_MIX003-AMP

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

## 1.1. Product identifier

Nitroimidazoles Mix; 100 µg/mL in Acetonitrile

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

### Use of the substance/mixture

Reference standard for analysis.

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

Company name:	WITEGA Laboratorien Berlin-Adlershof	GmbH
Street:	James-Franck-Strasse 4	
Place:	D-12489 Berlin	
Telephone:	+493063922001	Telefax: +493063922007
e-mail:	witega@witega.de	
Internet:	www.witega.de	
1.4. Emergency telephone	+493063922001	
number:		

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

### 2.1. Classification of the substance or mixture

### **GB CLP Regulation**

Hazard Statements: Highly flammable liquid and vapour. Harmful if swallowed, in contact with skin or if inhaled. Causes serious eye irritation.

Danger

## 2.2. Label elements

GB CLP Regulation

Signal word: 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

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P281	Use personal protective equipment as required.
P262	Do not get in eyes, on skin, or on clothing.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.

## 2.3. Other hazards

No data available

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

# 3.2. Mixtures



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## Hazardous components

CAS No	Chemical name	Quantity
	EC No Index No REACH No	
	Classification (GB CLP Regulation)	
75-05-8	acetonitrile; cyanomethane	95 - < 100 %
	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	
16773-42-5	Ornidazole	< 1 %
	Acute Tox. 4; H302	
936-05-0	HMMNI	< 1 %
14885-29-1	Ipronidazole	< 1 %
	238-957-3	
	Acute Tox. 4; H302	
35175-14-5	Ipronidazole-OH	< 1 %
4812-40-2	Metronidazole-OH	< 1 %
7681-76-7	Ronidazole	< 1 %
	231-675-1	
70028-95-4	Ternidazole hydrochloride	< 1 %
	274-285-7	
	Acute Tox. 4; H302	
42116-76-7	Carnidazole	< 1 %
19387-91-8	Tinidazole	< 1 %
	243-014-4	
	Carc. 2, Muta. 2, Acute Tox. 4, Acute Tox. 4; H351 H341 H332 H312	
227622-73-3	Secnidazole hemihydrate	< 1 %
	Repr. 2; H361d	
6506-37-2	Nimorazole	< 1 %
	229-394-4	
	Acute Tox. 4; H302	
443-48-1	Metronidazole	< 1 %
	Carc. 2, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H351 H315 H319 H335	
551-92-8	Dimetridazole	< 1 %
	Skin Irrit. 2, Eye Irrit. 2B, STOT SE 3; H315 H320 H335	

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



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CAS No	EC No	Chemical name	Quantity
	Specific Conc	. Limits, M-factors and ATE	
75-05-8	200-835-2	acetonitrile; cyanomethane	95 - < 100 %
		rE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = al: ATE = 500 mg/kg	
16773-42-5		Ornidazole	< 1 %
	oral: LD50 =	1139 mg/kg	
14885-29-1	238-957-3	Ipronidazole	< 1 %
	oral: LD50 =	640 mg/kg	
7681-76-7	231-675-1	Ronidazole	< 1 %
	oral: LD50 =	3450 mg/kg	
70028-95-4	274-285-7	Ternidazole hydrochloride	< 1 %
	oral: ATE = 5	00 mg/kg	
19387-91-8	243-014-4	Tinidazole	< 1 %
	inhalation: Da	ata lacking (gases); dermal: Data lacking; oral: LD50 = 2710 mg/kg	
6506-37-2	229-394-4	Nimorazole	< 1 %
	oral: LD50 =	1540 mg/kg	
443-48-1		Metronidazole	< 1 %
	oral: LD50 =	3000 mg/kg	

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

## **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

### After contact with skin

Remove contaminated, saturated clothing immediately. Subsequently wash off with: Water and soap

### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

### After ingestion

Rinse mouth immediately and drink plenty of water. Get immediate medical advice/attention. Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps.

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

No data available

## 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. Foam. Dry extinguishing powder. Carbon dioxide (CO2).

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

In case of fire may be liberated: Pyrolysis products, toxic. In case of fire and/or explosion do not breathe fumes.

## 5.3. Advice for firefighters



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In case of fire: Wear self-contained breathing apparatus.

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

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

#### General advice

Use personal protection equipment. Do not breathe gas/fumes/vapour/spray.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### Other information

Take up dust-free and set down dust-free.

### 6.4. Reference to other sections

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 should be used if possible.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

### Advice on general occupational hygiene

Use personal protection equipment.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Avoid: UV-radiation/sunlight

## Further information on storage conditions

storage temperature: 2-8°C

## 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 should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

## Individual protection measures, such as personal protective equipment

### Eye/face protection

Eye glasses with side protection

### Hand protection

Wear suitable gloves. The quality of the protective gloves resistant to chemicals must be chosen as a function



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of the specific working place concentration and quantity of hazardous substances.

## Skin protection

lab coat

## **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	
Odour:	odourless	
Boiling point or initial boiling point and		No data available
boiling range:		<b>.</b>
Flammability:		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		No data available
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value:		No data available
Water solubility:		No data available
Solubility in other solvents		
No data available		
Partition coefficient n-octanol/water:		No data available
Vapour pressure:		No data available
Density:		No data available
Relative vapour density:		No data available
9.2. Other information		
Information with regard to physical has	zard classes	
Explosive properties		
No data available		
Self-ignition temperature		
Solid:		No data available
Gas:		No data available
Oxidizing properties No data available		
Other safety characteristics		

Evaporation rate:

## **Further Information**

none

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

# 10.1. Reactivity

Reacts with : Oxidising agent, Alkali (lye), Etchant and acids

## 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

## 10.3. Possibility of hazardous reactions

No known hazardous reactions.

No data available



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## 10.4. Conditions to avoid

Do not expose to temperatures exceeding 50 °C/122 °F.

## 10.5. Incompatible materials

Oxidising agent, Alkali (lye), Etchant and acids

## 10.6. Hazardous decomposition products

In case of fire may be liberated: Pyrolysis products, toxic.

## **SECTION 11: Toxicological information**

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

### Acute toxicity

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

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
75-05-8	acetonitrile; cyanometh	ane				
	oral	ATE mg/kg	500			
	dermal	LD50 mg/kg	988	Rabbit	IUCLID	
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			
16773-42-5	Ornidazole					
	oral	LD50 mg/kg	1139	Mouse		
14885-29-1	Ipronidazole					
	oral	LD50 mg/kg	640	Meleagris gallopavo		
7681-76-7	Ronidazole					
	oral	LD50 mg/kg	3450	Rat		
70028-95-4	Ternidazole hydrochlor	ide				
	oral	ATE mg/kg	500			
19387-91-8	Tinidazole					
	oral	LD50 mg/kg	2710	Rat		
	dermal	Data lack	ing			
	inhalation	Data lack	ing			
6506-37-2	Nimorazole					
	oral	LD50 mg/kg	1540	Rat		
443-48-1	Metronidazole					
	oral	LD50 mg/kg	3000	Rat		

## Irritation and corrosivity

Causes serious eye irritation.

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



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## Sensitising effects

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

### 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.

### Specific effects in experiment on an animal

No data available

## **SECTION 12: Ecological information**

### 12.1. Toxicity

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

## No data available

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

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

### Partition coefficient n-octanol/water

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

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

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

No data available

### **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

### **Disposal recommendations**

Dispose of waste according to applicable legislation.

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

### Contaminated packaging

This material and its container must be disposed of as hazardous waste.



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## **SECTION 14: Transport information**

Land transport (ADR/RID) <u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
Inland waterways transport (ADN) <u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
Marine transport (IMDG) <u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
Air transport (ICAO-TI/IATA-DGR) <u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	No
14.6. Special precautions for user No data available	
14.7. Maritime transport in bulk according	

No dangerous good in sense of this transport regulation.

## **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 40, Entry 75

### 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. 3 - highly hazardous to water

Water hazard class (D):

## 15.2. Chemical safety assessment

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

## **SECTION 16: Other information**

### 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.
	H319	Causes serious eye irritation.
	H320	Causes eye irritation.
	H332	Harmful if inhaled.
	H335	May cause respiratory irritation.
	H341	Suspected of causing genetic defects.
	H351	Suspected of causing cancer.
	H361d	Suspected of damaging the unborn child.

### **Further Information**

This information is based on our present state of knowledge. However, it should not constitute a guarantee for



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any specific product properties and shall not establish a legally valid relationship. The substances are only for R&D. Do not use as a drug, in household or other applications.

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