

Product no.: 225-06613-14

Current version: 3.0.2. issued: 15.09.2021 Replaced version: 3.0.0, issued: 18.07.2018 Region: GB

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

#### **Product identifier**

Trade name

## Standard sample for LC/MS

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

#### Relevant identified uses of the substance or mixture

General chemical processes

#### Uses advised against

No data available.

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

#### Address

Shimadzu Europa GmbH Albert-Hahn-Str. 6-10 Duisburg 47269

Telephone no. +49 (0)203 - 7687-0 Fax no. +49 (0)203 - 711045 Information provided by / telephone

Tel.: +49 (0)203 - 7687-0 **Advice on Safety Data Sheet** 

sdb\_info@umco.de

#### 1.4 **Emergency telephone number**

For medical advice (in German and English): +49 (0)551 192 40 (Giftinformationszentrum Nord)

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

## Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

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

## Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008: Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

#### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

## Hazard pictograms





Signal word

Danger

#### Hazardous component(s) to be indicated on label:

acetonitrile

Hazard statement(s)

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 statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280

Wear protective gloves/protective clothing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.



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## 2.3 Other hazards

No data available.

## SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not applicable. The product is not a substance.

#### 3.2 Mixtures

## **Chemical characterization**

Acetonitrile with Reserpine (CAS-no. 50-55-5)

#### Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Concentration	%
	REACH no			
1	acetonitrile			
	75-05-8 Acute Tox. 4*; H302		< 100.00	wt%
	200-835-2	Acute Tox. 4*; H312		
	608-001-00-3	Acute Tox. 4*; H332		
	-	Eye Irrit. 2; H319		
		Flam. Liq. 2; H225		
2	Reserpine			
	50-55-5	Acute Tox. 4; H302	< 0.50	wt%
	200-047-9	Carc. 2; H351		
	-	Repr. 2; H361d		
	-			

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(\*,\*\*,\*\*\*,\*\*\*\*) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

#### **General information**

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

#### After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Call a doctor immediately.

## After skin contact

Wash off immediately with soap and water. Don't use solvents.

#### After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.).

#### After ingestion

Do not induce vomiting. Call a doctor immediately. Never give anything by mouth to an unconscious person.

#### 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

Alcohol-resistant foam; Extinguishing powder; Carbon dioxide; Water spray jet

## Unsuitable extinguishing media

High power water jet

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

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO2); Combustion products of this material have to be classed invariably as respiratory poison.

## 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet. Suppress gases/vapours/mists with water spray jet.



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## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away from ignition sources.

#### For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

#### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

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

Pick up with absorbent material (e.g., sand, sawdust, general-purpose binder). Send in suitable containers for recovery or disposal.

#### 6.4 Reference to other sections

No data available.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

#### General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale vapours. Wash hands before breaks and after work. Provide eye wash fountain in work area. Have emergency shower available.

## Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition. Use explosion-proof equipment/fittings and non-sparking tools.

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

#### Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place. Protect from heat and direct sunlight.

## Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

## Incompatible products

Do not store together with:

#### 7.3 Specific end use(s)

No data available.

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

## 8.1 Control parameters

## Occupational exposure limit values

No	Substance name	CAS no.		EC no.	
1	acetonitrile	75-05-8	75-05-8		2
	2006/15/EC				
	Acetonitrile				
	WEL long-term (8-hr TWA reference period)	70	mg/m³	40	ppm
	Skin resorption / sensibilisation	Skin			
	List of approved workplace exposure limits (WELs) / EH4	.0			
	Acetonitrile				
	WEL short-term (15 min reference period)	102	mg/m³	60	ppm
	WEL long-term (8-hr TWA reference period)	68	ma/m³	40	nnm

#### 8.2 Exposure controls

#### Appropriate engineering controls

No data available.

## Personal protective equipment



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#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

#### Eye / face protection

Safety glasses with side protection shield (EN 166)

#### Hand protection

In case of intensive contact, wear protective gloves (EN 374). Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material In case of longer-term contact:

Appropriate Material viton

Appropriate Material In case of short-term contact / splash protection:

Appropriate Material nitrile

Other

Normal chemical work clothing.

#### **Environmental exposure controls**

No data available.

State of aggregation

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

#### 9.1 Information on basic physical and chemical properties

State of aggregation liquid					
Form/Colour liquid					
colourless					
Odour					
aromatic					
pH value  No data available					
Boiling point / boiling range					
Value		81	-	82	°C
Melting point/freezing point				40	•0
Value				-48	°C
Decomposition temperature  No data available					
Flash point					
Value				2	°C
Ignition temperature					
Value				523	°C
Flammability  No data available					
Lower explosion limit					
Value				4.4	% vol
Upper explosion limit					
Value				16	% vol
Vapour pressure Value				70	man Ha
Reference temperature	appr.			73 20	mm Hg ℃
Relative vapour density					
No data available					
Relative density No data available					
Density					
Value Reference temperature				0.78 20	g/cm³ °C
Solubility in water					



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Comments	miscible in all proportions					
Solubility						
No data available	No data available					
Partition coefficient n-octanol/water (log value)						
No Product Name						
1 Standard sample for LC/MS						
log Pow	-0.34					
Viscosity						
Value	0.39 mPa*s					
Reference temperature	20 °C					
Туре	dynamic					
Particle characteristics						
No data available						

## 9.2 Other information

Other information
The physical data is that of the main component/s.

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

## 10.1 Reactivity

No data available.

#### 10.2 Chemical stability

Stable if stored and handled properly.

#### 10.3 Possibility of hazardous reactions

No data available.

## 10.4 Conditions to avoid

None, if handled according to intended use.

## 10.5 Incompatible materials

Acids; Acid anhydrides; Acid chlorides; Oxidizing agents; Alkali metals; Reducing agents

## 10.6 Hazardous decomposition products

Carbon monoxide and carbon dioxide

## **SECTION 11: Toxicological information**

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acut	Acute oral toxicity (result of the ATE calculation for the mixture)				
No	Product Name				
1	Standard sample for LC/MS				
ATE	(Mixture)	500.50			
Meth	od	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.			

Acut	Acute oral toxicity					
No Product Name						
1	Standard sample for LC/MS					
LD50			2460	mg/kg		
Spec	ies	rat				

Acut	Acute dermal toxicity (result of the ATE calculation for the mixture)					
No	Product Name					
1	Standard sample for LC/MS					
ATE	(Mixture)	1101.10				
Meth	od	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I,				
		part 3, section 3.1.3.6.				

Acut	Acute dermal toxicity						
No	Product Name						
1	Standard sample for LC/MS						
LD50			1250	mg/kg			
Spec	ies	rabbit					

Acut	te inhalational toxicity (result of the ATE calculation for the mixture)
No	Product Name



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1 Standard sample for LC/MS	
ATE (Mixture)	11.0110
Route of exposure / physical from	Vapour
Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I,
	part 3, section 3.1.3.6.

Acut	Acute inhalational toxicity					
No	No Product Name					
1	Standard sample for LC/MS					
LC50			16000	ppm		
Duration of exposure			4	h		
Species		rat				

Sk	in	C	orr	osi	io	n/	irr	ita	ti	or	Ì
		-									•

No data available

## Serious eye damage/irritation

No data available

## Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

#### Reproduction toxicity

No data available

#### Carcinogenicity

No data available

## STOT - single exposure

No data available

## STOT - repeated exposure

No data available

## Aspiration hazard

No data available

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Inhalation of vapours may lead to headache, drowsiness and dizziness. Inhalation of vapours in higher concentration may lead to irritation of eyes, nose and respiratory tract. Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin. Eye contact with the product may lead to irritation.

#### 11.2 Information on other hazards

## **Endocrine disrupting properties**

No data available.

#### Other information

The toxicological information is based on the main components.

## SECTION 12: Ecological information

## 12.1 Toxicity

Toxicity to fish (acute)					
No	Product Name				
1	Standard sample for LC/MS				
LC50			5850	mg/l	
Species		Leuciscus idus		-	

## Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)				
No	Product Name			
1	Standard sample for LC/MS			
EC50			100	mg/l
Duration of exposure			96	h
Species		Daphnia magna		

## Toxicity to Daphnia (chronic)

No data available

Tovio	Toxicity to algae (acute)		
IOXIC	Toxicity to algae (acute)		
No	Product Name		
No	Floudet Name		



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1	Standard sample for LC/MS			
EC0			7300	mg/l
Spec	cies	Scenedesmus quadrica	auda	-
No data available				
Bacteria toxicity				
No	Product Name			
1	Standard sample for LC/MS			
ECO			620	ma/l

12.2 Persistence and degradability

Biod	Biodegradability		
No	Product Name		
1	Standard sample for LC/MS		
Fvalı	uation	readily degradable	

Pseudomonas putida

#### 12.3 Bioaccumulative potential

Parti	Partition coefficient n-octanol/water (log value)		
No	Product Name		
1	Standard sample for LC/MS		
log Pow		-0.34	

## 12.4 Mobility in soil

Species

No data available.

#### 12.5 Results of PBT and vPvB assessment

No data available.

## 12.6 Endocrine disrupting properties

No data available.

## 12.7 Other adverse effects

No data available.

## 12.8 Other information

## Other information

Do not discharge product unmonitored into the environment.

Ecological data refers to the main components.

## SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

#### **Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### **Packaging**

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

## **SECTION 14: Transport information**

#### 14.1 Transport ADR/RID/ADN

Class 3
Classification code F1
Packing group II
Hazard identification no. 33
UN number UN1648
Proper shipping name ACETONITRILE
Tunnel restriction code D/E

14.2 Transport IMDG

Class 3
Packing group II
UN number UN1648
Proper shipping name ACETONITRILE
EmS F-E, S-D
Label 3



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#### 14.3 Transport ICAO-TI / IATA

Class 3
Packing group II
UN number UN1648
Proper shipping name Acetonitrile

Label 3

## 14.4 Other information

No data available

#### 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

#### 14.6 Special precautions for user

No data available.

## 14.7 Maritime transport in bulk according to IMO instruments

Not relevant

## **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulations

#### Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

#### REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

# Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3, 40

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category:

P5b

## 15.2 Chemical safety assessment

No data available.

## **SECTION 16: Other information**

## Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

## Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H302 Harmful if swallowed. H312 Harmful in contact with skin.

H332 Harmful if inhaled. H351 Suspected of caus

H351 Suspected of causing cancer. H361d Suspected of damaging the unborn child.

## Creation of the safety data sheet

UMCO GmbH

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

#### Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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