

Product no.: 225-06613-04

Current version: 3.1.0. issued: 18.05.2020 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.



Product no.: 225-06613-04

Current version: 3.1.0, issued: 18.05.2020 Replaced version: 3.0.0, issued: 18.07.2018 Region: GB

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 1.0 µg/ml Papaverine HCI (CAS-no. 61-25-6)

Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	acetonitrile			
•	75-05-8	Acute Tox. 4*; H302	< 100.00	%-b.w.
	200-835-2	Acute Tox. 4*; H312		
	608-001-00-3	Acute Tox. 4*; H332		
	-	Eye Irrit. 2; H319		
		Flam. Liq. 2; H225		

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. Cool endangered containers with water spray jet. Wear protective clothing. Suppress gases/vapours/mists with water spray jet.

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



Product no.: 225-06613-04

Current version: 3.1.0, issued: 18.05.2020 Replaced version: 3.0.0, issued: 18.07.2018 Region: GB

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		200-835-2	
	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) / EH40				
	Acetonitrile				
	WEL short-term (15 min reference period)	102	mg/m³	60	ppm
	WEL long-term (8-hr TWA reference period)	68	mg/m³	40	ppm

8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

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)

EC safety data sheet



Trade name: Standard sample for LC/MS

Product no.: 225-06613-04

Current version: 3.1.0, issued: 18.05.2020 Replaced version: 3.0.0, issued: 18.07.2018 Region: GB

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

information on basic physical and chemi	icai properties			
Form/Colour				
liquid				
colourless				
Odour				
aromatic				
Odour threshold				
No data available				
pH value				
No data available				
Boiling point / boiling range Value		81	°C	
		81	C	
Melting point / melting range				
Value		-46	°C	
Decomposition point / decomposition range				
No data available				
Flash point				
Value		5	°C	
Ignition temperature Value	1	525	°C	
		323		
Auto-ignition temperature				
No data available				
Oxidising properties				
No data available				
Explosive properties				
No data available				
Flammability (solid, gas)				
No data available				
Lower flammability or explosive limits				
Value		3	% vol	
		•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Upper flammability or explosive limits Value		16	% vol	
		16	70 VOI	
Vapour pressure				
Value		97	mbar	
Reference temperature		20	°C	
Vapour density				
No data available				
Evaporation rate				
No data available				
Relative density				
No data available				



Product no.: 225-06613-04

Current version: 3.1.0, issued: 18.05.2020 Replaced version: 3.0.0, issued: 18.07.2018 Region: GB

Den	sity				
Valu	e	0.	.78	g/cm³	
Refe	erence temperature	20	0	°C	
Solu	ibility in water				
Com	iments	miscible in all proportions	IS		
Solu	ibility(ies)				
No d	lata available				
Part	ition coefficient: n-octanol/water				
No	Product Name				
1	Standard sample for LC/MS				
log F	Pow			-0.34	
Viscosity					
Valu	e	0.	.39	mPa*s	
Refe	erence temperature	20	0	°C	
Туре		dynamic			

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

No data available.

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

None known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acut	Acute oral toxicity (result of the ATE calculation for the mixture)				
No	Product Name				
1	Standard sample for LC/MS				
ATE	(Mixture)	500.05			
Method		Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I,			
		part 3, section 3.1.3.6.			

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

Acut	Acute dermal toxicity (result of the ATE calculation for the mixture)				
	, , ,				
	Product Name				
1	Standard sample for LC/MS				
ATE	ATE (Mixture) 1100.11				
Meth	Method Calculation method according Regulation (EC) No 1272/2008, (CLP), annex				
		part 3 section 3 1 3 6			

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



Product no.: 225-06613-04

Current version: 3.1.0, issued: 18.05.2020 Replaced version: 3.0.0, issued: 18.07.2018 Region: GB

Acut	Acute inhalational toxicity (result of the ATE calculation for the mixture)				
No	Product Name				
1	Standard sample for LC/MS				
ATE	(Mixture)	11.0011			
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	Product Name					
1	Standard sample for LC/MS					
LC50	LC50 16000 ppm			ppm		
Dura	tion of exposure		4	h		
Spec	ies	rat				

Skin corrosion/irritation

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.

Other information

The toxicological information is based on the main components

SECTION 12: Ecological information

12.1 Toxicity

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

Toxicity to fish (chronic)

No data available

The district of the state of th				
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

Toxicity to algae (acute)			
No	Product Name		
1	Standard sample for LC/MS		
EC0		7300	mg/l

EC safety data sheet



Trade name: Standard sample for LC/MS

Product no.: 225-06613-04

Current version: 3.1.0, issued: 18.05.2020 Replaced version: 3.0.0, issued: 18.07.2018 Region: GB

Spec	cies	Scenedesmus quadricauda	
Toxicity to algae (chronic)			
No d	No data available		
Bacteria toxicity			
No	Product Name		
1	Standard sample for LC/MS		
EC0		680 mg/l	
Species		Pseudomonas putida	

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water		
No	Product Name	
1	Standard sample for LC/MS	
log Pow		-0.34

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 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

Residuals 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

Label 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

14.3 Transport ICAO-TI / IATA

Class 3 Packing group II UN number UN1648



Product no.: 225-06613-04

Current version: 3.1.0, issued: 18.05.2020Replaced version: 3.0.0, issued: 18.07.2018Region: GB

Proper shipping name

Label

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 Transport in bulk according to Annex II of Marpol and the IBC Code

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)

Acetonitrile

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, PREPARATIONS AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe 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.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

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 chapter.

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.

Department issuing safety data sheet

UMCO GmbH

Georg-Wilhelm-Str. 187, D-21107 Hamburg

Tel.: +49 40 / 555 546 300 Fax: +49 40 / 555 546 357 e-mail: umco@umco.de

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.

Document protected by copyright. Alterations or reproductions require the express written permission of UMCO GmbH.

Prod-ID 39992