Trade name: Standard sample for LC/MS Product no.: 225-06613-13 Current version : 3.0.2, issued: 15.09.2021

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

1.1 **Product identifier** Trade name

Fax no.

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 +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



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 1.0 ng/µl acetophenone (CAS-Nr. 98-86-2)

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		

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

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

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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)



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Hand protection

according to i.e. EN 374, in the event o case for its specific work-station suitab manufacturer's instructions and informa	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	l 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	1	00	*2
Value		82	°C
Melting point/freezing point			
Value		-45	°C
Decomposition temperature			
No data available			
Flash point			
Value		9.5	D°
Ignition temperature			
Value		524	O°
		02.	Ĵ
Flammability			
No data available			
Lower explosion limit			
Value		4.4	% vol
Unner ovalocion limit	•		
Upper explosion limit Value	1	16	% vol
		10	% VUI
Vapour pressure			
Value		9.7	kPa
Reference temperature		20	O °
Relative vapour density			
No data available			
Relative density No data available			
Density			
Value	0.780 -	0.784	g/cm ³
Reference temperature		20	Э°
Solubility in water			
Comments	miscible in all propor	tions	
	,		
Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			



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1	Standard sample for LC/MS				
log Pow				-0.34	
Visc	cosity				
Valu	e		0.39	mPa*s	
Refe	erence temperature		20	°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** Stable if stored and handled properly.
- **10.3 Possibility of hazardous reactions** No data available.
- 10.4 Conditions to avoid

Heat, naked flames or other ignition sources, electrostatic charge and discharge, formation of vapours/aerosols. Protect from sun.

10.5 Incompatible materials Acids; Alkalis; Reactions with alkali metals. Reducing agents

10.6 Hazardous decomposition products Carbon monoxide and carbon dioxide; Nitrous gases; cyanides

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)	500.05				
Meth	nod	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I,				
		part 3, section 3.1.3.6.				
Δουί	te oral toxicity					
No	Product Name					
1	Standard sample for LC/MS					
LD50		2460 mg/kg				
Spec		rat				
Acut	te dermal toxicity (result of the ATE calculation	for the mixture)				
No	Product Name					
1	Standard sample for LC/MS					
	(Mixture)	1100.11				
Meth	nod	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I,				
		part 3, section 3.1.3.6.				
Acut	te dermal toxicity					
No	Product Name					
1	Standard sample for LC/MS					
LD50)	390 mg/kg				
Spec	cies	rabbit				
Acut	te inhalational toxicity (result of the ATE calcula	tion for the mixture)				
No	Product Name					
1						
-	Standard sample for LC/MS (Mixture)	11.0011				
	e of exposure / physical from					
Meth		Vapour Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I,				
well	IUU					
		part 3, section 3.1.3.6.				



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Acute in	nhalational toxicity					
No Pr	roduct Name					
	tandard sample for LC/MS					
LC50			17100	ppm		
	n of exposure		4	h		
Species	3	rat				
	prrosion/irritation					
No data	a available					
Serious	s eye damage/irritation					
	a available					
Respira	atory or skin sensitisation					
	a available					
Germ cell mutagenicity						
	No data available					
Reproduction toxicity						
	No data available					
Caroino	ogenicity					
	a available					
	single exposure a available					
	repeated exposure					
No data	a available					
	tion hazard					
No data	a available					
Delayed	d and immediate effects as well as chronic eff	ects from short and long-term ex	posure			
Inhalatio	on of vapours may lead to headache, drowsiness	and dizziness. Inhalation of vapour	rs in higher concentration	on 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	I	(00		
LC50	>	100	mg/l	
Duration of exposure		96	h	
Species	Killifish			
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				
Toxicity to algae (acute)				
No Product Name				
1 Standard sample for LC/MS				
EC0		7300	mg/l	
Species	Scenedesmus quadricauda			
Toxicity to algae (chronic)				



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INO	data available						
Ba	Bacteria toxicity						
No	Product Name						
1	Standard sample for LC/MS						
EC		_		680	mg/l		
Sp	ecies	P	seudomonas putida				
12.2	Persistence and degradability						
	odegradability						
No							
1	Standard sample for LC/MS						
Ev	aluation	re	adily degradable				
12.3							
Pa	rtition coefficient n-octanol/water (lo	g value)					
No							
1	Standard sample for LC/MS						
log	Pow			-0.34			
12.4	Mobility in soil						
12.7	No data available.						
12.5	Results of PBT and vPvB asse	ssment					
	No data available.						
12.6	Endocrine disrupting propertie	26					
12.0	No data available						
	No data avaliable.						
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						
SEC1	FION 13 [,] Disposal considerat	ions					
	•	ions					
SEC1 13.1	Waste treatment methods	ions					
	Waste treatment methods Product						
	Waste treatment methods Product Allocation of a waste code number, a		uropean Waste Catalogu	e, should be carried out i	n agreement with the regional		
	Waste treatment methods Product Allocation of a waste code number, ar waste disposal company.		uropean Waste Catalogu	e, should be carried out i	n agreement with the regional		
	Waste treatment methods Product Allocation of a waste code number, ar waste disposal company. Packaging	ccording to the E					
	Waste treatment methods Product Allocation of a waste code number, and waste disposal company. Packaging Residues must be removed from pack	ccording to the Er	emptied completely disp	osed of in accordance w	th the regulations for waste		
	Waste treatment methods Product Allocation of a waste code number, ar waste disposal company. Packaging	ccording to the Er	emptied completely disp	osed of in accordance w	th the regulations for waste		
13.1	Waste treatment methods Product Allocation of a waste code number, ar waste disposal company. Packaging Residues must be removed from pack removal. Incompletely emptied packa	ccording to the E kaging and when ging must be disp	emptied completely disp	osed of in accordance w	th the regulations for waste		
13.1 SEC1	Waste treatment methods Product Allocation of a waste code number, are waste disposal company. Packaging Residues must be removed from pack removal. Incompletely emptied packa FION 14: Transport information	ccording to the E kaging and when ging must be disp	emptied completely disp	osed of in accordance w	th the regulations for waste		
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13.1 SEC1	Waste treatment methods Product Allocation of a waste code number, are waste disposal company. Packaging Residues must be removed from pack removal. Incompletely emptied packa FION 14: Transport information Transport ADR/RID/ADN Class Classification code	ccording to the E kaging and when ging must be disp on 3 F1	emptied completely disp	osed of in accordance w	th the regulations for waste		
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13.1 SEC1	Waste treatment methods Product Allocation of a waste code number, ar waste disposal company. Packaging Residues must be removed from pack removal. Incompletely emptied packa FION 14: Transport information Transport ADR/RID/ADN Class Classification code Packing group Hazard identification no. UN number Proper shipping name	ccording to the Ei kaging and when ging must be disp on 3 F1 II 33 UN1648 ACETONITR	emptied completely disposed of in the form of dis	osed of in accordance w	th the regulations for waste		
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13.1 SEC1 14.1	Waste treatment methods Product Allocation of a waste code number, ar waste disposal company. Packaging Residues must be removed from paci- removal. Incompletely emptied packa FION 14: Transport information Transport ADR/RID/ADN Class Classification code Packing group Hazard identification no. UN number Proper shipping name Tunnel restriction code Label Transport IMDG Class Packing group UN number	ccording to the Er kaging and when ging must be disp on 3 F1 II 33 UN1648 ACETONITR D/E 3 3	emptied completely disposed of in the form of dis	osed of in accordance w	th the regulations for waste		
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13.1 SEC1 14.1	Waste treatment methods Product Allocation of a waste code number, ar waste disposal company. Packaging Residues must be removed from pack removal. Incompletely emptied packa FION 14: Transport information Transport ADR/RID/ADN Class Classification code Packing group Hazard identification no. UN number Proper shipping name Tunnel restriction code Label Transport IMDG Class Packing group UN number Proper shipping name EmS	ccording to the Er kaging and when ging must be disp on 3 F1 II 33 UN1648 ACETONITR D/E 3 II UN1648 ACETONITR F-E, S-D	emptied completely dispo posed of in the form of dis	osed of in accordance w	th the regulations for waste		
13.1 SEC1 14.1	Waste treatment methods Product Allocation of a waste code number, ar waste disposal company. Packaging Residues must be removed from paci- removal. Incompletely emptied packa FION 14: Transport information Transport ADR/RID/ADN Class Classification code Packing group Hazard identification no. UN number Proper shipping name Tunnel restriction code Label Transport IMDG Class Packing group UN number Proper shipping name	ccording to the Ei kaging and when ging must be disp on 3 F1 II 33 UN1648 ACETONITR D/E 3 II UN1648 ACETONITR	emptied completely dispo posed of in the form of dis	osed of in accordance w	th the regulations for waste		

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14.3 Transport ICAO-TI / IATA Class

Class	3
Packing group	11
UN number	UN1648

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une	It version : 5.0.2, Issued: 15.09.202	Replaced Version: 5.0.0, Issued: 16.07.2018	Region
	Proper shipping name Label	Acetonitrile 3	
14.4	Other information No data available.		
14.5		ards, if relevant, please see 14.1 - 14.3.	
14.6	Special precautions for use No data available.)r	
14.7	Maritime transport in bulk Not relevant	according to IMO instruments	
SEC	TION 15: Regulatory infor	nation	
15.1	Safety, health and environr EU regulations	nental regulations/legislation specific for the substance o	r mixture
A	ccording to the data available and/or	CH) Annex XIV (List of substances subject to authorisation) specifications supplied by upstream suppliers, this product does not co uthorisation as listed on Annex XIV of the REACH regulation (EC) 1907/	5
A c	ccording to available data and the in	s of very high concern (SVHC) for authorisation formation provided by preliminary suppliers, the product does not contair iteria for inclusion in annex XIV (List of Substances Subject to Authoris <i>a</i> 7/2006.	

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.

Creation of the 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.

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