

Product no.: 228-32996-15

Current version: 3.0.2, issued: 15.09.2021 Replaced version: 3.0.0, issued: 17.07.2018 Region: GB

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

Product identifier

Trade name

HPLC Standard Sample

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

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.: 228-32996-15

Current version: 3.0.2, issued: 15.09.2021 Replaced version: 3.0.0, issued: 17.07.2018 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 1µg/ml Anthracen (CAS 120-12-7).

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.

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.

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

None known

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)



Product no.: 228-32996-15

Current version: 3.0.2, issued: 15.09.2021 Replaced version: 3.0.0, issued: 17.07.2018 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

State of aggregation			
liquid			
Form/Colour			
liquid			
colourless			
Odour			
No data available			
pH value			
No data available			
Boiling point / boiling range			
Value		82	°C
Melting point/freezing point			
Value		-45	°C
Decomposition temperature			
No data available			
Flash point			
Value		9.5	°C
Ignition temperature			
No data available			
Flammability			
No data available			
Lower explosion limit	T	4.4	0/1
Value		4.4	% vol
Upper explosion limit			
Value		16	% vol
Vapour pressure			
Value Reference temperature		9.7 20	kPa °C
		20	0
Relative vapour density No data available			
Relative density No data available			
Density			
Value	0.780 -	0.784	g/cm³
Reference temperature		20	č
Solubility in water			
Comments	miscible		
Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			



Product no.: 228-32996-15

Current version: 3.0.2, issued: 15.09.2021 Replaced version: 3.0.0, issued: 17.07.2018 Region: GB

No data available

Viscosity
No data available

Particle characteristics
No data available

9.2 Other information

Other information	
No data available.	

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

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

10.5 Incompatible materials

Acids; Alkalis; Reducing agents; Alkali metals

10.6 Hazardous decomposition products

Carbon monoxide and carbon dioxide; Nitrous gases; Hydrogen cyanide (HCN)

SECTION 11: Toxicological information

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

Acute oral toxicity (result of the ATE calculation for the mixture)					
No	Product Name				
1	HPLC Standard Sample				
ATE	(Mixture)	500.01			
Method Calculation method according Regulation (EC) No 1272/2008, (CL		Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I,			
		part 3, section 3.1.3.6.			

Acute oral toxicity No data available

Acut	Acute dermal toxicity (result of the ATE calculation for the mixture)			
No	Product Name			
1	HPLC Standard Sample			
ATE	(Mixture)	1100.01		
Meth	od	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.		

Acute dermal toxicity No data available

Acute inhalational toxicity (result of the ATE calculation for the mixture)			
No	Product Name		
1	HPLC Standard Sample		
ATE	(Mixture)	11.0001	
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	

Acute inhalational toxicity	
No data available	

Skin corrosion/irritation No data available

Serious eye damage/irritation No data available

Respiratory or skin sensitisation No data available

EU safety data sheet



Trade name: HPLC Standard Sample

Product no.: 228-32996-15

Current version: 3.0.2, issued: 15.09.2021 Replaced version: 3.0.0, issued: 17.07.2018 Region: GB

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

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)				
No	Product Name			
1	HPLC Standard Sample			
LC50		>	100	mg/l
Duration of exposure			96	h
Species		Killifish		

Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)

No data available

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No data available

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability

Biod	Biodegradability		
No	Product Name		
1	HPLC Standard Sample		
Comr	nents	The product is biodegradable.	

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

No data available.



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Other adverse effects

No data available.

Other information

Other information

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

Waste treatment methods

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

Transport ADR/RID/ADN

Class 3 F1 Classification code Ш Packing group Hazard identification no. 33 **UN** number UN1648 Proper shipping name **ACETONITRILE**

Tunnel restriction code D/E

Label

14.2 Transport IMDG

Class 3 Packing group UN1648 UN number

ACETONITRILE Proper shipping name

EmS F-E, S-D Label

14.3 Transport ICAO-TI / IATA

Class Packing group Ш

UN number UN1648 Proper shipping name Acetonitrile

Label

Other information

No data available

Environmental hazards

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

Special precautions for user

No data available.

Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

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

EU safety data sheet



Trade name: HPLC Standard Sample

Product no.: 228-32996-15

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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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