

Trade name: Standard Sample for LC/MS (equipment evaluation) Product no.: 225-06613-06 Current version : 4.1.0, issued: 14.11.2022 Replaced version: 4.0.2, issued: 15.09.2021 Region: GB

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

1.1 Product identifier Trade name

Standard Sample for LC/MS (equipment evaluation)

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

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 +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. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 Flam. Liq. 2; H225 STOT SE 1; H370

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 methanol	be indicated on label:
Hazard statement(s) H225 H301+H311+H331 H370	Highly flammable liquid and vapour. Toxic if swallowed, in contact with skin or if inhaled Causes damage to organs.
Precautionary statement(s) P210 P260 P280	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection.



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IF SWALLOWED: Immediately call a POISON CENTER/doctor. Call a POISON CENTER/doctor.

2.3 Other hazards

P311

No data available.

P301+P310

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization

Mixture based on water/methanol with 18.5 µL/L polyethylen glycol, 50µL/L raffinose, 14.5µL/L ammonium acetate and 1mL/L acetonitrile.

Hazardous ingredients						
No	Substance name		Addit	Additional information		
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Conce	entration		%
	REACH no					
1	methanol					
	67-56-1	Acute Tox. 3*; H301	>	50.00 - <	70.00	wt%
	200-659-6	Acute Tox. 3*; H311				
	603-001-00-X	Acute Tox. 3*; H331				
	-	Flam. Liq. 2; H225				
		STOT SE 1; H370**				

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

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	STOT SE 2; H371: C >= 3%	-	-
		STOT SE 1; H370: C >= 10%		

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

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Cool endangered containers with water spray jet. Use self-contained breathing apparatus. 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 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	methanol	67-56-1		200-659-6	i
	2006/15/EC				
	Methanol				
	WEL long-term (8-hr TWA reference period)	260	mg/m³	200	ppm
	Skin resorption / sensibilisation	Skin			
	List of approved workplace exposure limits (WELs) / EH4	40			
	Methanol				
	WEL short-term (15 min reference period)	333	mg/m³	250	ppm
	WEL long-term (8-hr TWA reference period)	266	mg/m³	200	ppm
	Comments	Sk			

8.2 Exposure controls

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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)

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

Appropriate Material Appropriate Material Appropriate Material Appropriate Material

viton In case of short-term contact / splash protection: 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		
liquid		
Colour colourless		
Odour		
characteristic		
pH value		
No data available		
Boiling point / boiling range		
Value	65	°
Melting point/freezing point	00	*0
Value	-98	°C
Decomposition temperature No data available		
Flash point		
Value	11	°C
Ignition temperature		
No data available		
Auto-ignition temperature	404	*0
Value	464	°C
Flammability No data available		
Lower explosion limit		
Value	6	% vol
Upper explosion limit		
Value	36.5	% vol
Vapour pressure		
No data available	 	
Relative vapour density No data available		



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Acute dermal toxicity No data available

Acute inhalational toxicity (result of the ATE calculation for the mixture)
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Re	lative density	
	data available	
De	nsity	
	lue	0.79 g/cm ³
Re	ference temperature	20 °C
	lubility in water	
Co	mments	miscible
	lubility	
No	data available	
	rtition coefficient n-octanol/water (log value)	
No	data available	
	nematic viscosity	
No	data available	
	rticle characteristics	
NO	data available	
9.2	Other information	
	her information	
No	data available.	
SEC1	FION 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 sun. Heat, naked flames or other ignit	tion sources, electrostatic charge and discharge, formation of vapours/aerosols.
10.5	Incompatible materials Oxidizing agents; Acids; Acid anhydrides; Acid chlo	orides; Reducing agents; Alkali metals
10.6	Hazardous decomposition products Carbon monoxide and carbon dioxide	
SECT	TION 11: Toxicological information	
11.1	Information on hazard classes as defined i	in Regulation (EC) No 1272/2008
Ac	ute oral toxicity (result of the ATE calculation for	r the mixture)
No	Product Name	
1	Standard Sample for LC/MS (equipment evalue	
	E (Mixture)	200.00 Calculation method according Regulation (EC) No 1272/2008, (CLP), annex
IVIC		I, part 3, section 3.1.3.6.
Ac	ute oral toxicity	
No		
1	Standard Sample for LC/MS (equipment evaluation	
LD		5628 mg/kg
	ecies	rat
Ac	ute dermal toxicity (result of the ATE calculation	tor the mixture)
1	Standard Sample for LC/MS (equipment evaluation)	ation)
AT	E (Mixture)	600.00
Me	thod	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.



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1 Standard Sample for LC/MS (equipment evaluation) ATE (Mixture) 6.0000 Route of exposure / physical from 0 Method Calculation method according Regulation (EC) No 1272/2008, (CLP), and I, part 3, section 3.1.3.6. Acute inhalational toxicity Calculation method according Regulation (EC) No 1272/2008, (CLP), and I, part 3, section 3.1.3.6. Acute inhalational toxicity No No Product Name 1 Standard Sample for LC/MS (equipment evaluation) LC50 83.9 Duration of exposure 4 Species 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 No data available Eacution toxicity No data available Carcinogenicity No data available Stot available Stot - single exposure Stot - single exposure
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Duration of exposure 4 h Species 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
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Reproduction toxicity No data available Carcinogenicity No data available
No data available Carcinogenicity No data available
Carcinogenicity No data available
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 a
irritation of the skin. Eye contact with the product may lead to irritation.
.2 Information on other hazards
Endocrine disrupting properties
No data available.
Other information
No data available.
ECTION 12: Ecological information
.1 Toxicity
Toxicity to fish (acute)
No data available

No data available
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



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Biodegradability		
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Evalu	Evaluation 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.
- 12.7 Other adverse effects No data available.

12.8 Other information

Other information

Ecological data are not available. Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Packaging

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

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

14.1	Transport ADR/RID/ADN	
	Class	3
	Classification code	FT1
	Packing group	II
	Hazard identification no.	336
	UN number	UN1992
	Proper shipping name	FLAMMABLE LIQUID, TOXIC, N.O.S.
	Technical name	methanol
	Tunnel restriction code	D/E
	Label	3+6.1
14.2	Transport IMDG	
	Class	3
	Subsidiary Risk	6.1
	Packing group	II
	UN number	UN1992
	Proper shipping name	FLAMMABLE LIQUID, TOXIC, N.O.S.
	Technical name	methanol
	EmS	F-E, S-D
	Label	3+6.1
14.3	Transport ICAO-TI / IATA	
-	Class	3
	Subrisk	6.1
	Packing group	II
	UN number	UN1992
	Proper shipping name	Flammable liquid, toxic, n.o.s.
	Technical name	methanol
	Label	3+6.1
14.4	Other information	
	No data available.	
14.5	Environmental hazards	

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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 <u>EU regulations</u>

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

 The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.
 No 3, 40

 No
 Substance name
 CAS no.
 EC no.
 No

NoSubstance nameCAS no.EC no.1methanol67-56-1200-659-6

 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:
 H2, P5b

 If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.

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) H301 Toxic if swallowed.

- H301 Toxic il swallowed. H311 Toxic in contact with skin.
- H331 Toxic if inhaled.

Creation of the safety data sheet

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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.

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