

Product no.: 221-46859-02

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

1.1 Product identifier

Trade name

Standard Sample for GC (HS/ECD)

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 47269 Duisburg

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. 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







Signal word

Danger

Hazardous component(s) to be indicated on label:

methanol

Hazard statement(s)

H225 Highly flammable liquid and vapour.

GHS06

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled

H370 Causes damage to organs.

Precautionary statement(s)

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

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.



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P303+P361+P353 P304+P340 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Concentration	%
	REACH no			
1	methanol			
	67-56-1	Acute Tox. 3*; H301	< 100.00	wt%
	200-659-6	Acute Tox. 3*; H311		
	603-001-00-X	Acute Tox. 3*; H331		
	-	Flam. Liq. 2; H225		
		STOT SE 1; H370**		
2	trichloromethane			
	67-66-3	Acute Tox. 3; H331	< 0.50	wt%
	200-663-8	Acute Tox. 4; H302		
	602-006-00-4	Carc. 2; H351		
	-	Eye Irrit. 2; H319		
		Repr. 2; H361d		
		Skin Irrit. 2; H315		
		STOT RE 1; H372		

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%		
2	-	STOT RE 2; H373: C >= 5%	-	-

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.). Seek medical assistance.

After ingestion

Rinse the mouth thoroughly with water. 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



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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

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with 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 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 foodstuffs. Do not store together with oxidizing agents.

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	
	2006/15/EC				
	Methanol				
	WEL long-term (8-hr TWA reference period)	260	mg/m³	200	ppm
	Skin resorption / sensibilisation	Skin	-		



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	List of approved workplace exposure limits (WELs) / EH40				
	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	-		
2	trichloromethane	67-66-3		200-663-8	
	2000/39/EC				
	Chloroform				
	WEL long-term (8-hr TWA reference period)	10	mg/m³	2	ppm
	Skin resorption / sensibilisation	Skin			
	List of approved workplace exposure limits (WELs) / EH40				
	Chloroform				
	WEL long-term (8-hr TWA reference period)	9.9	mg/m³	2	ppm
	Comments	Sk			

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)

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.

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, clear		
Odour		
characteristic		
pH value		
No data available		
Boiling point / boiling range		
Value	65	°C
Melting point/freezing point		
Value	-98	°C
Decomposition temperature		
No data available		
Flash point		
Value	11	°C
Ignition temperature		
No data available		
Auto-ignition temperature		
Value	464	°C
Flammability		
No data available		



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Lower explosion limit			
Value		6	% vol
Upper explosion limit			
Value		36.5	% vol
Vapour pressure			
Value		12.3	kPa
Reference temperature		20	°C
Relative vapour density			
No data available			
Relative density			
No data available			
Density			
Value		0.79	g/cm³
Solubility in water			
Comments	miscible		
Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			
No Product Name			
1 Standard Sample for GC (HS/ECD)			
log Pow	appr. 0.66		- 0.82
Viscosity			
No data available			
Particle characteristics			
No data available			
a and the state of			

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

None, if handled according to intended use.

10.5 Incompatible materials

Oxidizing agents; Acids; Acid chlorides; Acid anhydrides; 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

Acute oral toxicity (result of the ATE calculation for the mixture)							
No	o Product Name						
1	Standard Sample for GC (HS/ECD)						
ATE	ATE (Mixture) 100.10						
Meth	Method Calculation method according Regulation (EC) No 1272/2008, (CLP), annex						
	part 3. section 3.1.3.6.						

Acut	Acute oral toxicity					
No	Product Name					
1	Standard Sample for GC (HS/ECD)					
LD50		5628	mg/kg			



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Species	rat
Acute dermal toxicity (result of the ATE of	calculation for the mixture)
No Product Name	<u>, </u>
1 Standard Sample for GC (HS/ECD)	
ATE (Mixture)	300.30
Method	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 Standard Sample for GC (HS/ECD)	
ATE (Mixture)	3.0000
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 Product Name	
1 Standard Sample for GC (HS/ECD)	
LC50	64000 ppm
Duration of exposure	4 h
Species	rat
Skin corrosion/irritation	
No Product Name	
1 Standard Sample for GC (HS/ECD)	
Evaluation	non-irritant
Serious eye damage/irritation	
No Product Name	
1 Standard Sample for GC (HS/ECD)	
Evaluation	non-irritant
Respiratory or skin sensitisation	
No Product Name	
1 Standard Sample for GC (HS/ECD)	
Route of exposure	Skin
Evaluation	non-sensitizing
Germ cell mutagenicity	· · · ·
No data available	
Reproduction toxicity	
No Product Name	
1 Standard Sample for GC (HS/ECD)	4.00
Species	1.33 mg/l
Comments	Indications of toxic effects are available from reproduction studies in animals.
	I maleations of toxic encots are available from reproduction studies in difficials.
Carcinogenicity	
No data available	
STOT - single exposure	

STOT - repeated exposure

No data available

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.



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SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)

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

	<u> </u>					
Biod	Biodegradability					
No	Product Name					
1	Standard Sample for GC (HS/ECD)					
Evalu	uation	biodegradable				

12.3 Bioaccumulative potential

Parti	Partition coefficient n-octanol/water (log value)					
No	Product Name					
1	Standard Sample for GC (HS/ECD)					
log P	ow	appr.	0.66	-	0.82	

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

Do not let enter the product into drains or waterways and do not store on public depositories

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 FT1
Packing group II
Hazard identification no. 336
UN number UN1230

Proper shipping name METHANOL solution



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Tunnel restriction code D/E Label 3+6.1

14.2 Transport IMDG

Class 3
Subsidiary Risk 6.1
Packing group II
UN number UN1230

Proper shipping name METHANOL Solution

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
 UN1230

Proper shipping name Methanol Solution

Label 3+6.1

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					
The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.					
No	Substance name	CAS no.	EC no.		No
1	methanol	67-56-1	200-659	9-6	69
2	trichloromethane	67-66-3	200-663	3-8	32

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.

Other regulations

Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed.

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.



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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.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H351 Suspected of causing cancer.

H361d Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

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.

Alterations/supplements:

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

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