Trade name: Standard sample for LC/MS Product no.: 225-14985-01, 225-14985-04 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 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 +49 (0)203 - 711045 Fax no. 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 Flam. Liq. 3; H226 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) t methanol | o be indicated on label: |
| Hazard statement(s) H226 H302+H312+H332 H370 | Flammable liquid and vapour. Harmful if swallowed, in contact with skin or if inhaled Causes damage to organs. |
| Precautionary statement(s) P210 P308+P311 P260 |) Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. IF exposed or concerned: Call a POISON CENTER/doctor. Do not breathe dust/fume/gas/mist/vapours/spray. |

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Trade name: Standard sample for LC/MS

Product no.: 225-14985-01, 225-14985-04

Current version : 4.1.0, issued: 14.11.2022

Replaced version: 4.0.2, issued: 15.09.2021

Region: GB

P280

Wear protective gloves/protective clothing.

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 Mixture (preparation)

Hazardous ingredients

| No | Substance name | | Additional info | Additional information | | |
|----|--|---------------------|-----------------|------------------------|-----|--|
| | CAS / EC / Index / Classification (EC) 1272/2008 (CLP) | | Concentration | Concentration | | |
| | REACH no | | | | | |
| 1 | methanol | | | | | |
| | 67-56-1 | Acute Tox. 3*; H301 | >= 10.00 | - < 25.00 | 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 accident or if you feel unwell, seek medical advice immediately. 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. Call a doctor immediately.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance.

After ingestion

Do not induce vomiting. Call a doctor immediately. Rinse out mouth and give plenty of water to drink. 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

Trade name: Standard sample for LC/MS

Product no.: 225-14985-01, 225-14985-04

Current version : 4.1.0, issued: 14.11.2022

Replaced version: 4.0.2, issued: 15.09.2021

Region: GB

Cool endangered containers with water spray jet. Use self-contained breathing apparatus. Suppress gases/vapours/mists with water spray jet. Wear protective clothing. Run-off water from fire fighting must not be discharged into drains or enter surface water.

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.

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: oxidizing agents; Acids; Acid chlorides; Acid anhydrides; Reducing agents; Alcali metals

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 | | | |
| | 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 | | | |

8.2 Exposure controls

Product no.: 225-14985-01, 225-14985-04

Current version : 4.1.0, issued: 14.11.2022

Region: GB

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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. Respiratory filter (gas): AX

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 In case of longer-term contact:

| Appropriate material |
|----------------------|
| Appropriate Material |
| Appropriate Material |
| Appropriate Material |

In case of longer-term contact: 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, clear | |
| Odour | |
| characteristic | |
| pH value | |
| No data available | |
| Boiling point / boiling range No data available | |
| | |
| Melting point/freezing point No data available | |
| | |
| Decomposition temperature No data available | |
| Flash point | |
| Value | 47 °C |
| Ignition temperature | |
| No data available | |
| Flammability | |
| No data available | |
| Lower explosion limit | |
| No data available | |
| Upper explosion limit | |
| No data available | |
| Vapour pressure | |
| No data available | |
| Relative vapour density | |
| No data available | |
| Relative density | |

Trade name: Standard sample for LC/MS **Product no.:** 225-14985-01, 225-14985-04

Current version : 4.1.0, issued: 14.11.2022

Replaced version: 4.0.2, issued: 15.09.2021

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Region: GB

| No | data available | | | | |
|---------|--|---|--|--|--|
| De | nsity | | | | |
| | data available | | | | |
| | lubility in water | | | | |
| | omments | miscible | | | |
| | | | | | |
| | lubility | | | | |
| INC | data available | | | | |
| | rtition coefficient n-octanol/water (log value) | | | | |
| No | data available | | | | |
| | nematic viscosity | | | | |
| No | data available | | | | |
| Pa | rticle characteristics | | | | |
| No | data available | | | | |
| 9.2 | Other information | | | | |
| | her information | | | | |
| | data available. | | | | |
| | | | | | |
| SEC | ΓΙΟΝ 10: Stability and reactivity | | | | |
| | | | | | |
| 10.1 | Reactivity | | | | |
| | No data available. | | | | |
| 10.2 | Chemical stability | | | | |
| | No data available. | | | | |
| 10.3 | Possibility of hazardous reactions | | | | |
| 10.5 | No data available. | | | | |
| | | | | | |
| 10.4 | Conditions to avoid | | | | |
| | Heat | | | | |
| 10.5 | Incompatible materials | | | | |
| | Oxidizing agents; Acids; Acid chlorides; Acid anhydrides; Reducing agents; Alkali metals | | | | |
| 10.6 | Hazardous decomposition products | | | | |
| 10.0 | No hazardous decomposition products known. | | | | |
| | · · · · · · · · · · · · · · · · · · · | | | | |
| SEC | FION 11: Toxicological information | | | | |
| | | n Desculation (EC) No. 4072/2000 | | | |
| 11.1 | Information on hazard classes as defined i | | | | |
| | ute oral toxicity (result of the ATE calculation for | the mixture) | | | |
| No | | | | | |
| 1 ^T | Standard sample for LC/MS E (Mixture) | 500.00 | | | |
| Me | ethod | Calculation method according Regulation (EC) No 1272/2008, (CLP), annex | | | |
| | | I, part 3, section 3.1.3.6. | | | |
| ۵c | ute oral toxicity | | | | |
| | data available | | | | |
| | | | | | |
| No | tute dermal toxicity (result of the ATE calculation | for the mixture) | | | |
| 1 | Standard sample for LC/MS | | | | |
| AT | E (Mixture) | 1500.00 | | | |
| | ethod | Calculation method according Regulation (EC) No 1272/2008, (CLP), annex | | | |
| | I, part 3, section 3.1.3.6. | | | | |
| Ac | Acute dermal toxicity | | | | |
| No | No data available | | | | |
| | Acute inhalational toxicity (result of the ATE calculation for the mixture) | | | | |
| No | | | | | |
| 1 | Standard sample for LC/MS | | | | |
| | E (Mixture) | 15.0000 | | | |
| | ute of exposure / physical from | Vapour | | | |
| | ethod | Calculation method according Regulation (EC) No 1272/2008, (CLP), annex | | | |

Trade name: Standard sample for LC/MS **Product no.:** 225-14985-01, 225-14985-04

Current version : 4.1.0, issued: 14.11.2022

Region: GB

| | No data available |
|---|---|
| | Skin corrosion/irritation |
| Γ | No data available |
| | Serious eye damage/irritation |
| ٢ | No data available |
| | Respiratory or skin sensitisation |
| Ν | No data available |
| | Germ cell mutagenicity |
| ľ | No data available |
| F | Reproduction toxicity |
| Ν | No data available |
| (| Carcinogenicity |
| ľ | No data available |
| ŝ | STOT - single exposure |
| Ν | No data available |
| ŝ | STOT - repeated exposure |
| ŀ | No data available |
| ŀ | Aspiration hazard |
| Ν | No data available |
| [| Delayed and immediate effects as well as chronic effects from short and long-term exposure |
| | nhalation of vapours may lead to headache, drowsiness and dizziness. Inhalation of vapours in higher concentration may lead to |
| | rritation of eyes, nose and respiratory tract. Repeated and prolonged skin contact may cause removal of natural fat from the skin and |
| İ | rritation of the skin. Eye contact with the product may lead to irritation. |

Endocrine disrupting properties No data available.

Other information

Exercise customary precautions when handling chemicals.

SECTION 12: Ecological information

12.1 Toxicity

| i lokioky |
|-------------------------------|
| 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

| 14. | | | | | |
|-----|-----------------------------|--------|---------------|--|--|
| | Biodegradability | | | | |
| | No Product Name | | | | |
| | 1 Standard sample for LC/MS | | | | |
| | Evalu | lation | biodegradable | | |

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

Trade name: Standard sample for LC/MS

Product no.: 225-14985-01, 225-14985-04

Current version : 4.1.0, issued: 14.11.2022

Replaced version: 4.0.2, issued: 15.09.2021

Region: GB

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 allow to enter soil, waterways or waste water canal.

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

| 14.1 | Iransport ADR/RID/ADN Class Classification code Packing group Hazard identification no. UN number Proper shipping name Technical name Tunnel restriction code | 3 F1 III 30 UN1993 FLAMMABLE LIQUID, N.O.S. methanol D/E | |
|------|---|---|--|
| 14.2 | Label Transport IMDG Class Packing group UN number Proper shipping name Technical name EmS Label | 3 III UN1993 FLAMMABLE LIQUID, N.O.S. methanol F-E, S-E 3 | |
| 14.3 | Transport ICAO-TI / IATA Class Packing group UN number Proper shipping name Technical name Label | 3 III UN1993 Flammable liquid, n.o.s. methanol 3 | |
| 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 | | |
| SECT | FION 15: Regulatory information | on | |
| | | | |

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU regulations</u>

Trade name: Standard sample for LC/MS

Product no.: 225-14985-01, 225-14985-04

Current version : 4.1.0, issued: 14.11.2022

Region: GB

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| Acco | 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. | | | | | |
|---|---|-------------------------------|----------------|--------------------------|--|--|
| | CH candidate list of substances of very high conc | | | | | |
| cons | ording to available data and the information provided b idered substances meeting the criteria for inclusion in le 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 regula | tion (EC) 1907/2006 annex XVI | Ι. | No 3, 40 | | |
| The | product contains following substance(s) that are consi | idered being subject to REACH | regulation (EC | c) 1907/2006 annex XVII. | | |
| No | Substance name | CAS no. | EC no. | No | | |
| 1 | methanol | 67-56-1 | 200-659 | 9-6 69, 75 | | |
| Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances | | | | | | |
| This | This product is subject to Part I of Annex I, risk category: H3, P5c | | | | | |
| If the | 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)

| H225 | Highly flammable liquid and vapour. |
|------|-------------------------------------|
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H331 | Toxic if inhaled. |
| H332 | Harmful 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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