

Trade name: Standard sample for LC/MS-9030**Product no.:** 225-34260-01**Current version :** 2.1.0, issued: 14.11.2022**Replaced version:** 2.0.2, 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-9030**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)**

Eye Irrit. 2; H319

Flam. Liq. 2; H225

STOT SE 1; H370

Classification information

Classification and labelling with respect to Serious eye damage/eye irritation are based on toxicological studies performed on the product (mixture).

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**

GHS02



GHS07



GHS08

Signal word

Danger

Hazardous component(s) to be indicated on label:

methanol

Hazard statement(s)

H225

Highly flammable liquid and vapour.

H319

Causes serious eye irritation.

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.

P308+P311

IF exposed or concerned: Call a POISON CENTER/doctor.

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P370+P378

In case of fire: Use water spray, extinguishing powder, foam or CO2 to extinguish.

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**

aqueous solution

Hazardous ingredients

| No | Substance name | Classification (EC) 1272/2008 (CLP) | Additional information | |
|----|---|--|------------------------|-----|
| | CAS / EC / Index / REACH no | | Concentration | % |
| 1 | methanol | | | |
| | 67-56-1 200-659-6 603-001-00-X - | Acute Tox. 3*; H301 Acute Tox. 3*; H311 Acute Tox. 3*; H331 Flam. Liq. 2; H225 STOT SE 1; H370** | >= 25.00 - < 50.00 | wt% |
| 2 | sodium-iodide | | | |
| | 7681-82-5 231-679-3 - - | Aquatic Acute 1; H400 | < 0.50 | wt% |

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% | - | - |

Acute toxicity estimate (ATE) values

| No | oral | dermal | inhalative |
|----|-----------------------|--------|------------|
| 1 | 1400 mg/kg bodyweight | | |

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

In case of persisting adverse effects, consult a physician. Change contaminated, saturated clothing.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

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

Seek medical advice immediately. Rinse the mouth thoroughly with water. 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**

Carbon dioxide; Extinguishing powder; Sand; Foam; Water spray jet

Unsuitable extinguishing media

No data available.

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5.2 Special hazards arising from the substance or mixture

Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back. In the event of fire, the following can be released: Carbon monoxide and carbon dioxide; Halogenated hydrocarbons

5.3 Advice for firefighters

Wear protective clothing. Use self-contained breathing apparatus.

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.

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). When collected, handle material as described under the section heading "Disposal considerations".

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage
7.1 Precautions for safe handling
Advice on safe handling

No special measures necessary if stored and handled as prescribed.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.

Advice on protection against fire and explosion

Keep away from sources of ignition and flames. Take precautionary measures against static charges.

7.2 Conditions for safe storage, including any incompatibilities
Technical measures and storage conditions

No special measures necessary.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage.

Incompatible products

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/m ³ 200 ppm |
| | Skin resorption / sensibilisation | Skin | |
| | List of approved workplace exposure limits (WELs) / EH40 | | |
| | Methanol | | |
| | WEL short-term (15 min reference period) | 333 | mg/m ³ 250 ppm |
| | WEL long-term (8-hr TWA reference period) | 266 | mg/m ³ 200 ppm |
| | Comments | Sk | |

8.2 Exposure controls
Appropriate engineering controls

No data available.

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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 (EN 166)

Hand protection

In case of intensive contact, wear protective gloves (EN 374). Check in any case suitability of protective glove for the specific workplace conditions (e.g. mechanical resistance, product compatibility, antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement 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 | | |
| liquid | | |
| Colour | | |
| colourless, clear | | |
| Odour | | |
| characteristic | | |
| pH value | | |
| No data available | | |
| Boiling point / boiling range | | |
| Value | 64 | °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 | | |
| Lower explosion limit | | |
| Value | 6.0 | % vol |
| Upper explosion limit | | |
| Value | 36.5 | % vol |
| Vapour pressure | | |
| Value | 12.3 | kPa |
| Relative vapour density | | |
| Value | 1.1 | |
| Relative density | | |
| Value | 0.791 | - 0.793 |
| Density | | |
| No data available | | |
| Solubility in water | | |
| Comments | miscible | |

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| |
|--|
| Solubility |
| No data available |
| Partition coefficient n-octanol/water (log value) |
| No data available |
| Kinematic viscosity |
| No data available |
| Particle characteristics |

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 under recommended storage and handling conditions (See section 7).

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

10.6 Hazardous decomposition products

Carbon monoxide and carbon dioxide; Halogenated hydrocarbons

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 | Standard sample for LC/MS-9030 |
| Comments | The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg). |

| Acute oral toxicity | | | |
|---------------------|----------------|---------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | methanol | 67-56-1 | 200-659-6 |
| LD50 | | 1400 | mg/kg bodyweight |
| Species | rat | | |

| Acute dermal toxicity (result of the ATE calculation for the mixture) | |
|---|---|
| No | Product Name |
| 1 | Standard sample for LC/MS-9030 |
| Comments | The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg). |

| Acute dermal toxicity | | | |
|-----------------------|----------------|---------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | methanol | 67-56-1 | 200-659-6 |
| LD50 | | 15800 | mg/kg bodyweight |
| Species | rat | | |

| Acute inhalational toxicity (result of the ATE calculation for the mixture) | |
|---|--------------------------------|
| No | Product Name |
| 1 | Standard sample for LC/MS-9030 |

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| | |
|----------|--|
| Comments | The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists)). |
|----------|--|

| Acute inhalational toxicity | | | |
|-----------------------------|----------------------|---------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | methanol | 67-56-1 | 200-659-6 |
| | LC50 | 22500 | mg/l |
| | Duration of exposure | 4 | h |
| | State of aggregation | Vapour | |
| | Species | rat | |

| Skin corrosion/irritation | |
|---------------------------|--|
| No data available | |

| Serious eye damage/irritation | |
|-------------------------------|--------------------------------|
| No | Product Name |
| 1 | Standard sample for LC/MS-9030 |
| Evaluation | irritant |

| Respiratory or skin sensitisation | |
|-----------------------------------|--|
| No data available | |

| 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 | |
|--|--|
| By appropriate use of the product no health damage is known. | |

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 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 | |

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No data available.

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**

Do not discharge product unmonitored into the environment.

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 | F1 |
| Packing group | II |
| Hazard identification no. | 33 |
| UN number | UN1993 |
| Proper shipping name | FLAMMABLE LIQUID, N.O.S. |
| Technical name | methanol |
| Special Provision 640 | 640C |
| Tunnel restriction code | D/E |
| Label | 3 |

14.2 Transport IMDG

| | |
|----------------------|--------------------------|
| Class | 3 |
| Packing group | II |
| UN number | UN1993 |
| Proper shipping name | FLAMMABLE LIQUID, N.O.S. |
| Technical name | methanol |
| EmS | F-E, S-E |
| Label | 3 |

14.3 Transport ICAO-TI / IATA

| | |
|----------------------|--------------------------|
| Class | 3 |
| Packing group | II |
| UN number | UN1993 |
| Proper shipping name | Flammable liquid, n.o.s. |
| Technical name | methanol |
| Label | 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.

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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 | 200-659-6 | 69, 75 |

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: H3, 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

A chemical safety assessment has not been carried out for this mixture.

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. |
| H311 | Toxic in contact with skin. |
| H331 | Toxic if inhaled. |
| H400 | Very toxic to aquatic life. |

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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Prod-ID 737127