

Trade name: SAMPLE TDTS 100UG/ML**Product no.:** 225-23999-12**Current version :** 3.1.0, issued: 14.11.2022**Replaced version:** 3.0.2, issued: 15.09.2021**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

SAMPLE TDTS 100UG/ML**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

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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**

GHS02



GHS06



GHS08

Signal word

Danger

Hazardous component(s) to be indicated on label:

methanol

Hazard statement(s)

H225

Highly flammable liquid and vapour.

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.

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 P301+P310
 P308+P311
 P403+P233

 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 IF exposed or concerned: Call a POISON CENTER/doctor.
 Store in a well-ventilated place. Keep container tightly closed.
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	Classification (EC) 1272/2008 (CLP)	Additional information Concentration	%
	CAS / EC / Index / REACH no			
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**	< 100.00	wt%
2	styrene			
	100-42-5 202-851-5 601-026-00-0 -	Acute Tox. 4*; H332 Eye Irrit. 2; H319 Flam. Liq. 3; H226 Repr. 2; H361d Skin Irrit. 2; H315 STOT RE 1; H372	< 0.50	wt%
3	dibutyl phthalate			
	84-74-2 201-557-4 607-318-00-4 -	Aquatic Acute 1; H400 Repr. 1B; H360Df	< 0.50	wt%
4	toluene			
	108-88-3 203-625-9 601-021-00-3 -	Asp. Tox. 1; H304 Flam. Liq. 2; H225 Repr. 2; H361d*** Skin Irrit. 2; H315 STOT RE 2*; H373** STOT SE 3; H336	< 0.50	wt%
5	1,4-dichlorobenzene			
	106-46-7 203-400-5 602-035-00-2 -	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Carc. 2; H351 Eye Irrit. 2; H319	< 0.50	wt%
6	bis(2-ethylhexyl) phthalate			
	117-81-7 204-211-0 607-317-00-9 -	Repr. 1B; H360FD	< 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%	-	-

No	Route, target organ, concrete effect
2	H372 -; hearing organs; -

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

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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

Use self-contained 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

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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	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	
2	styrene	100-42-5	202-851-5
	List of approved workplace exposure limits (WELs) / EH40		
	Styrene		
	WEL short-term (15 min reference period)	1080	mg/m ³ 250 ppm
	WEL long-term (8-hr TWA reference period)	430	mg/m ³ 100 ppm
3	dibutyl phthalate	84-74-2	201-557-4
	List of approved workplace exposure limits (WELs) / EH40		
	Dibutyl phthalate		
	WEL short-term (15 min reference period)	10	mg/m ³
	WEL long-term (8-hr TWA reference period)	5	mg/m ³
4	toluene	108-88-3	203-625-9
	2006/15/EC		
	Toluene		
	WEL short-term (15 min reference period)	384	mg/m ³ 100 ppm
	WEL long-term (8-hr TWA reference period)	192	mg/m ³ 50 ppm
	Skin resorption / sensibilisation	Skin	
	List of approved workplace exposure limits (WELs) / EH40		
	Toluene		
	WEL short-term (15 min reference period)	384	mg/m ³ 100 ppm
	WEL long-term (8-hr TWA reference period)	191	mg/m ³ 50 ppm
	Comments	Sk	
5	1,4-dichlorobenzene	106-46-7	203-400-5
	2017/164/EU		
	1,4-Dichlorobenzene; p-Dichlorobenzene		
	WEL short-term (15 min reference period)	60	mg/m ³ 10 ppm
	WEL long-term (8-hr TWA reference period)	12	mg/m ³ 2 ppm
	Skin resorption / sensibilisation	skin	
	List of approved workplace exposure limits (WELs) / EH40		
	1,4-Dichlorobenzene		
	WEL short-term (15 min reference period)	60	mg/m ³ 10 ppm
	WEL long-term (8-hr TWA reference period)	12	mg/m ³ 2 ppm
	Comments	Sk	
6	bis(2-ethylhexyl) phthalate	117-81-7	204-211-0
	List of approved workplace exposure limits (WELs) / EH40		
	Bis(2-ethylhexyl)phthalate		

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WEL short-term (15 min reference period)	10	mg/m ³
WEL long-term (8-hr TWA reference period)	5	mg/m ³

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.

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		
liquid		
Colour		
colourless		
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		
Lower explosion limit		
Value	6.0	% vol
Upper explosion limit		
Value	36.5	% vol
Vapour pressure		

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Value	12.3	kPa
Reference temperature	20	°C
Relative vapour density		
Value	1.1	
Relative density		
No data available		
Density		
Value	0.79	g/cm³
Reference temperature	20	°C
Solubility in water		
Comments	easily soluble	
Solubility		
No data available		
Soluble in		
Ethanol; Ether		
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 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 and other ignition sources.

10.5 Incompatible materials

Acids; Acid anhydrides; Acid chlorides; Oxidizing agents; 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	Product Name		
1	SAMPLE TDTS 100UG/ML		
ATE (Mixture)		101.11	
Method		Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.	
Acute oral toxicity			
No	Product Name		
1	SAMPLE TDTS 100UG/ML		
LD50	5628		mg/kg
Species	rat		
Acute dermal toxicity (result of the ATE calculation for the mixture)			
No	Product Name		
1	SAMPLE TDTS 100UG/ML		
ATE (Mixture)		303.34	

Trade name: SAMPLE TDTS 100UG/ML**Product no.:** 225-23999-12**Current version :** 3.1.0, issued: 14.11.2022**Replaced version:** 3.0.2, issued: 15.09.2021**Region:** GB

Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.
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Acute dermal toxicity

No data available

Acute inhalational toxicity (result of the ATE calculation for the mixture)**No Product Name****1 SAMPLE TDTS 100UG/ML**

ATE (Mixture)

3.0334

Route of exposure / physical form

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

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 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

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No data available

12.2 Persistence and degradability

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	FT1
Packing group	II
Hazard identification no.	336
UN number	UN1230
Proper shipping 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	UN1230
Proper shipping 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	UN1230
Proper shipping name	Methanol
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.

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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)**

The product contains following substance(s) that are considered being a substance subject to Authorisation) according to REACH regulation ((EC) 1907/2006) annex XIV:

No	Substance name	CAS no.	EC no.
1	bis(2-ethylhexyl) phthalate	117-81-7	204-211-0
2	dibutyl phthalate	84-74-2	201-557-4

REACH candidate list of substances of very high concern (SVHC) for authorisation

The product contains following substance(s) meeting the criteria in Article 57 in association with Article 59 of the REACH regulation ((EC) 1907/2006) that are placed on the list of candidates considered for inclusion in annex XIV (substances subject to Authorisation).

No	Substance name	CAS no.	EC no.
1	bis(2-ethylhexyl) phthalate	117-81-7	204-211-0
2	dibutyl phthalate	84-74-2	201-557-4

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	1,4-dichlorobenzene	106-46-7	203-400-5	64, 75
2	bis(2-ethylhexyl) phthalate	117-81-7	204-211-0	30, 51, 75
3	dibutyl phthalate	84-74-2	201-557-4	30, 51, 75
4	methanol	67-56-1	200-659-6	69, 75
5	m-xylene	108-38-3	203-576-3	75
6	o-xylene	95-47-6	202-422-2	75
7	p-xylene	106-42-3	203-396-5	75
8	styrene	100-42-5	202-851-5	75
9	toluene	108-88-3	203-625-9	48, 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: 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)

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H360FD	May damage fertility. May damage the unborn child.
H361d	Suspected of damaging the unborn child.

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H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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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