



Printing date 27.02.2024 Version number 2 Revision: 30.11.2023

1 Identification

- · Product identifier
- · Trade name: DELFIA Terbium Standard Solution
- · Article number: C558-100
- · Relevant identified uses of the substance or mixture and uses advised against
- · Product category PC21 Laboratory chemicals
- · Application of the substance / the mixture

Laboratory chemicals In vitro diagnostics

- Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Revvity Inc.
Wallac Oy
P.O. Box 10
FI-20101 Turku
Finland
+358 2 2678 111

· Further information obtainable from:

Product safety department.

MSDS Turku@revvity.com

· Emergency telephone number:

CHEMTREC (whithin U.S.) 800 424-9300

CHEMTREC (from outside U.S.) +1-703-572-3887

2 Hazard identification

· Classification of the substance or mixture

The product is not classified, according to the Globally Harmonised System (GHS).

- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.
- · Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- · Label elements
- · GHS label elements The product is labelled according to the IVD regulation
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition / information on ingredients

- · Chemical characterisation: Mixtures
- **Description:** Mixture of substances listed below with nonhazardous additions.

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(Contd. of page 1) · Dangerous components: Void · Other ingredients 7732-18-5 water 95-100% 77-86-1 trometamol 1-2.5% 127-09-3 sodium acetate <1% Acute Tox. 5, H303 acetic acid 64-19-7 <1% C R35 📀 Flam. Liq. 3, H226; 📀 Skin Corr. 1A, H314; 🗘 Acute Tox. 4, H312; Acute Tox. 5, H303 Specific concentration limits: Skin Corr. 1A; H314: C≥90 % Skin Corr. 1B; H314: $25 \% \le C < 90 \%$ Skin Irrit. 2; H315: $10 \% \le C < 25 \%$ Eye Irrit. 2; H319: $10 \% \le C < 25 \%$ 877-24-7 potassium hydrogen phthalate < 0.25% 9002-93-1 Polyethylene glycol octylphenol ether ≥0.025-<0.1% 🗙 Xn R22; 💢 Xi R41; 🖖 N R51/53 Eye Dam. 1, H318; 🏵 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315; Acute Tox. 5, H313 57-09-3 CTAB, Cetyltrimethylammonium bromide ≥0.025-<0.1% **★** Xn R22; **★** Xi R36/37/38; **♣** N R50/53 Acute Tox. 3, H301; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319; **STOT SE 3, H335** 64-17-5 ethanol <0.1% **№** F R11

4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.

🚱 Flam. Lig. 2, H225

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.

· Additional information: For the wording of the listed hazard phrases refer to section 16.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

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6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

8 Exposure controls / personal protection

- · Additional information about design of technical facilities: No further data; see section 7.
- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

- · Respiratory protection: Not required.
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product the preparation/

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection: Goggles recommended during refilling

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9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

· Appearance:

· Flash point:

Form: Fluid

Colour: According to product specification

· Odour: Characteristic
· Odour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/freezing point: 0 °C Initial boiling point and boiling range: 100 °C

• Flammability (solid, gas): Not applicable.
• Decomposition temperature: Not determined.

Ignition temperature: Product is not selfigniting.

• Explosive properties: Product does not present an explosion hazard.

Not applicable.

Not determined.

Not determined.

Explosion limits: Lower:

Upper:

Vapour pressure at 20 °C: 23 hPa
 Density at 20 °C: 1 g/cm³
 Relative density Not determined.
 Vapour density Not determined.
 Evaporation rate Not determined.

· Solubility in / Miscibility with

water: Fully miscible.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

Dynamic at 20 °C: 0.952 mPas **Kinematic:** Not determined.

· Solvent content:

 Organic solvents:
 0.6 %

 Water:
 96.6 %

• Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.

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· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
- · Acute toxicity
- Primary irritant effect:
- · Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation No irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.
- Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation Hand over to hazardous waste disposers.
- · Uncleaned packaging:
- · Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

• Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

· UN-Number	
· ADR, ADN, IMDG, IATA	Void
· UN proper shipping name	

· ADR, ADN, IMDG, IATA Void

· Transport hazard class(es)

· ADR, ADN, IMDG, IATA

· Class Void

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· Packing group · ADR, IMDG, IATA	Void	
· Environmental hazards: · Marine pollutant:	Not applicable	
· Special precautions for user	Not applicable.	
Transport in bulk according to Annex Land the IBC Code	I of Marpol Not applicable.	
· UN "Model Regulation":	Void	

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

	· Philippines Inventory of Chemicals and Chemical Substances		
7732-18-5			
	trometamol		
	sodium acetate		
	acetic acid		
	potassium hydrogen phthalate		
	Polyethylene glycol octylphenol ether		
64-17-5			
78-50-2	Trioctylphosphine oxide		

- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · National regulations:
- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57

 9002-93-1 Polyethylene glycol octylphenol ether
 - · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H303 May be harmful if swallowed.

H312 Harmful in contact with skin.

H313 May be harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

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H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
R10	Flammable.
R11	Highly flammable.
R22	Harmful if swallowed.
R35	Causes severe burns.
R36/37/3	8 Irritating to eyes, respiratory system and skin.
R41	Risk of serious damage to eyes.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
· Denartm	ent issuing SDS: Product safety department.
-	MSDS Turku@revvity.com
	tions and acronyms:
	ord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the
	al Carriage of Dangerous Goods by Road)
IMDG: Inte	ernational Maritime Code for Dangerous Goods
	national Air Transport Association
	uropean Inventory of Existing Commercial Chemical Substances uropean List of Notified Chemical Substances
	uropean List of Notified Chemical Substances nical Abstracts Service (division of the American Chemical Society)
	stent, Bioaccumulative and Toxic
SVHC: Sub	stances of Very High Concern
vPvB: very	Persistent and very Bioaccumulative

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