



Safety Data Sheet

TSH canine ELISA

Catalog Number: 55-TSHCA-E01



MATERIAL SAFETY DATA SHEET

according to 1907/2006/EC + amended 453/2010/EC

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Article number: 55-TSHCA-E01

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier

Trade name: **TSH canine ELISA**

Article number: **55-TSHCA-E01**

1.2 Relevant identified uses of the substance or mixture and uses advised against

The TSH canine ELISA is an enzyme immunoassay for the quantitative measurement of TSH in canine serum and EDTA plasma.

Kit content (name and label reference):

Microtiterplate	[SORB MT]
Standard 0-5	[CAL 0-5]
Enzyme Conjugate	[ENZ CONJ]
TMB-Substrate Solution	[SUB TMB]
Stop Solution	[STOP SOLN]
Wash Buffer Concentrate	[WASH SOLN 10x]

1.3 Details of the supplier of the safety data sheet

Supplier:

ALPCO
26-G Keewaydin Drive
Salem, NH 03079
Phone: (800) 592-5726
Fax: (603) 898-6854
cs@alpcos.com | www.alpcos.com

Manufacturer:

Demeditec Diagnostics GmbH
Lise-Meitner Straße 2
D-24145 Kiel

Phone: +49 (0)431-71922-0
Fax: +49 (0)431-7192255

E-mail: info@demeditec.de
<http://www.demeditec.de>

Qualified Person (QP): Dr. Wolfgang Klingler

1.4 Emergency telephone number

+49-(0)431 / 71922-0 (during opening time: 8:00 h – 16:30 h)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Due to the low concentration of hazardous ingredients none of the listed components of this product may be classified as dangerous according to Directive 1999/45/EC, 67/548/EEC and Regulation (EC) 1272/2008.



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2.2 Label elements

This product is not under labeling according to Regulation (EC) n. 1272/2008.

2.3 Other hazards

No one.

Note: this product is intended for laboratory use by professional uses only. Use appropriate personal protective equipment while working with the reagents provided.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Stop Solution							
Ingredient	CAS No [EC No]	Con- taining Conc. (%)	Classification according to regulation (EC) No 1272/2008 (CLP) (related to the concentrated form)		Pictogram, Signal Word Code(s)	Specific Conc. Limits, M-factors	Dir. 67/548/EEC
			Hazard Class and Category Code(s)	Hazard statement Code(s)			
Hydro-chloric Acid (HCl) Index-No. 017-002-01-X	7647-01-0 [231-595-7]	< 10 %*	Skin Corr. 1B STOT SE 3	H314 H335	GHS05 GHS07 Dgr	Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 % STOT SE 3; H335: C ≥ 10 %	C; R34-37: C ≥ 25 % Xi; R36/37/38: 10 % ≤ C < 25 %

*Dilution is not classified as hazardous according to the European Regulation 67/548/EEC and 1999/45/EC or 1272/2008/EC.

3.2 Mixtures

Standards, Enzyme Conjugate							
Ingredient	CAS No [EC No]	Con- taining Conc. (%)	Classification according to regulation (EC) No 1272/2008 (CLP) (related to the concentrated form)		Pictogram, Signal Word Code(s)	Specific Conc. Limits, M-factors	Dir. 67/548/EEC
			Hazard Class and Category Code(s)	Hazard statement Code(s)			
Thimerosal Index-No. 080-004-00-7	54-64-8 [200-210-4]	< 0.01%*	Acute Tox. 2 * Acute Tox. 1 Acute Tox. 2 * STOT RE 2 * Aquatic Acute 1 Aquatic Chronic 1	H330 H310 H300 H373 ** H400 H410	GHS06 GHS08 GHS09 Dgr	* STOT RE 2; H373: C ≥ 0,1 %	T+; R26/27/28: C ≥ 2 % T; R23/24/25: 0,5 % ≤ C < 2 % Xn; R20/21/22: 0,05 % ≤ C < 0,5 % R33: C ≥ 0,05 %

*Dilution is not classified as hazardous according to the European Regulation 67/548/EEC and 1999/45/EC or 1272/2008/EC.

Enzyme Conjugate, Wash Buffer Concentrate, Sample Diluent, Control 1&2						
Ingredient	CAS No [EC No]	Containing Conc. (%)	Classification according to regulation (EC) No 1272/2008 (CLP) (related to the concentrated form)	Pictogram, Signal Word Code(s)	Specific Conc. Limits, M-factors	Dir. 67/548/EEC

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			Hazard Class and Category Code(s)	Hazard statement Code(s)			
Proclin 300* Index-No. 613-167-00-5	55965-84-9	< 0.0015 %*	Acute Tox. 3 * Acute Tox. 3 * Acute Tox. 3 * Skin Corr. 1B Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1	H331 H311 H301 H314 H317 H400 H410	GHS06 GHS05 GHS09 Dgr	Skin Corr. 1B; H314: C ≥ 0,6 % Skin Irrit. 2; H315: 0,06 % ≤ C < 0,6 % Eye Irrit. 2; H319: 0,06 % ≤ C < 0,6 % Skin Sens. 1; H317: C ≥ 0,0015 %	T; N R: 23/24/25- 34-43- 50/53 S: (2-)26-28- 36/37/ 39-45-60-61

* Proclin 300 is a mixture of substances of the components, 5-chloro-2-methyl-2H-isothiazol-3-one (EG-nr 247-500-7) and 2-methyl-2H-isothiazol-3-one (3:1).

*Dilution is not classified as hazardous according to the European Regulation 67/548/EEC and 1999/45/EC or 1272/2008/EC.

Note: See section 16 for the detailed text of the above stated R-, H-, P- and S-phrases.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: No special measures required. Consult physician in case of complaints.

If inhaled: supply fresh air.

In case of skin contact: Immediately flush skin with plenty of water. Cold water may be used.
Remove contaminated clothing and shoes.

In case of eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used.

If swallowed: If swallowed, rinse mouth with plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

To our present state of knowledge no symptoms or risks are known.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Use dry chemical powder, water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

To the best of our knowledge, no special hazards can be defined.

5.3 Advice for firefighters

No data available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate protective gloves and clothes.

6.2 Environmental precautions

Dilute with plenty of water.

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

6.3 Methods and material for containment and cleaning up

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



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Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections

For personal protection see section 8.

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Use all reagents in accordance with the relevant package insert provided with the product.

Do not smoke, eat, drink or apply cosmetics in areas where kit reagents are handled.

Wear disposable latex gloves when handling reagents.

Never pipet by mouth and avoid contact of reagents and specimens with skin and mucous membranes.

Handling should be done in accordance with the procedures defined by an appropriate national biohazard safety guideline or regulation.

7.2 Conditions for safe storage, including any incompatibilities

Store all reagents as directed in the relevant package insert provided with the product.

Protect TMB-Substrate Solution from UV light.

7.3 Specific end use(s)

This product is intended for laboratory use by professional users only.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

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

8.2. Exposure controls

General hygiene directives should be considered.

Keep away from foodstuffs and beverages. Wash hands before breaks and at the end of the working day.

Personal protective equipment

Respiratory protection: Not required.

Skin Protection: Protective gloves of nitrile rubber or nature latex, satisfying the norm DIN EN 455

Eye / face protection: Safety glasses with side shields conforming to EN 166 (EU), NIOSH (US)

Body protection: Impenetrable protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Component	(a) Appearance	(b) Odor	(d) pH
Standard A-F	liquid, colorless	odorless	7.4 ± 0.05
Enzyme Conjugate	liquid, red	odorless	7.4 ± 0.05
Microtiterplate	solid, white	odorless	not applicable
TMB-Substrate Solution	liquid, colorless	odorless	3,6 - 3,8
Stop Solution	liquid, colorless	odorless	< 1
Wash Buffer Concentrate	liquid, colorless	odorless	7.4 ± 0.05



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For all components	
(c) Odor threshold	no data available
(e) Melting point/freezing point	no data available
(f) Initial boiling point and boiling range	no data available
(g) Flash point	no data available
(h) Evaporation rate	no data available
(i) Flammability (solid, gas)	no data available
(j) Upper/lower flammability or explosive limits	no data available
(k) Vapor pressure	no data available
(l) Vapor density	no data available
(m) Relative density	no data available
(n) Solubility(ies)	Fully miscible
(o) Partition coefficient: n-octanol/water	no data available
(p) Auto-ignition temperature	Product is not selfigniting
(q) Decomposition temperature	no data available
(r) Viscosity	no data available
(s) Explosive properties	Product does not present an explosion hazard
(t) Oxidizing properties	no data available

9.2 Other information

No other information available.



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10. STABILITY AND REACTIVITY

10.1 Reactivity: no data available.

10.2 Chemical stability: no data available.

10.3 Possibility of hazardous reactions: no data available.

10.4 Conditions to avoid

TMB Substrate Solution: Protect from direct UV light, avoid elevated temperatures.

10.5 Incompatible materials: no data available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

(a) Acute toxicity	no data available
(b) Skin corrosion/irritation	Stop Solution: May cause irritation of the skin.
(c) Serious eye damage / irritation	Stop Solution: May cause irritation of the eyes.
(d) Respiratory or skin sensitization	no data available
(e) Germ cell mutagenicity	no data available
(f) Carcinogenicity	no data available
(g) Reproductive toxicity	no data available
(h) STOT-single exposure	no data available
(i) STOT-repeated exposure	no data available
(j) Aspiration hazard	no data available

Additional Information

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

12.1 Toxicity: 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: not applicable.

12.6 Other adverse effects: no data available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods **Product:**

Waste should be disposed of in accordance with federal, state and local environmental control regulations. Must not be composed together with household garbage.

Uncleaned packaging:

Waste should be disposed of in accordance with federal, state and local environmental control regulations. Must not be composed together with household garbage.

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General notes:

Water hazard class 1 (German Regulation) (Self-assessment): WGK3 (Thimerosal).

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

14. TRANSPORT INFORMATION

No hazardous material as defined by the transport regulations (ADR/RID, IMDG Code, ICAO TI/IATA DGR).

14.1 UN number: None

14.2 UN proper shipping name: None

14.3 Transport hazard class(es): None

14.4 Packing group: None

14.5 Environmental hazards: None

14.6 Special precautions for user: Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

15. REGULATORY INFORMATION

This Safety Data Sheet is according to:

1907/2006/EC Registration, evaluation and authorization of chemicals regulation (REACH)
1272/2008/EC Classification, labelling and packaging regulation (CLP, globally harmonized system GHS) replaces 67/548/EEC and 1999/45/EC, amending 1907/2006/EC
453/2010/EC Compilation of safety data sheets regulation (SDS), amending 1907/2006/EC

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No data available.

15.2 Chemical safety assessment No data available.

16. OTHER INFORMATION

"H code" and "R Phrases" used in this Safety data sheet

Reg. 1272/2008	Dir. 67/548/EEC	
H300	/	Fatal if swallowed.
H301	/	Toxic if swallowed.
H310	/	Fatal in contact with skin.
H311	/	Toxic in contact with skin.
H314	/	Causes severe skin burns and eye damage.
H315	/	Cause skin irritation.
H317	/	May cause an allergic skin reaction.
H319	/	Cause serious eye irritation.
H330	/	Fatal if inhaled.
H331	/	Toxic if inhaled.
H335	/	May cause respiratory irritation.



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H373	/	May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H400	/	Very toxic to aquatic life.
H410	/	Very toxic to aquatic life with long lasting effects.
/	R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
/	R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
/	R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed.
/	R33	Danger of cumulative effects.
/	R34	Causes burns.
/	R37	Irritating to respiratory system.
/	R36/37/38	Irritating to eyes, respiratory system and skin.
/	R43	May cause sensitization by skin contact.
/	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

“P statements” and “S Phrases” used in this Safety data sheet

Reg. 1272/2008	Dir. 67/548/EEC	
/	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
/	S28	After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer)
/	S36/37	Wear suitable protective clothing and gloves.
/	S39	Wear eye/face protection.
/	S45	In case of accident or if you feel unwell, seek medical advice immediately. (Show the label where possible.)
/	S60	This material and/or its container must be disposed of as hazardous waste
/	S61	Avoid release to the environment. Refer to special instructions safety data sheet

Department issuing MSDS: Product Management

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.