

# SAFETY DATA SHEET

## Complement TCC ELISA

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

<b>PRODUCT NAME:</b>	Complement TCC
<b>Product code</b>	COMPL TCC RUO (all reagents in Complement TCC assay, except H <sub>2</sub> SO <sub>4</sub> Stop Solution)

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

<b>Use of the product</b>	Elisa kit for in vitro analytical applications
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#### 1.3 Details of the supplier of the safety data sheet

<b>Company</b>	SVAR Life Science AB
<b>Address</b>	Lundavägen 151
<b>Zip code/Place</b>	SE-212 24 Malmö, Sweden
<b>Telephone</b>	+46 40 53 76 00
<b>Internet</b>	<a href="http://www.svarlifescience.com">www.svarlifescience.com</a>
<b>E-mail</b>	<a href="mailto:info@svarlifescience.se">info@svarlifescience.se</a>

#### 1.4 Emergency telephone number

<b>Emergency telephone number</b>	(Sweden) Acute: 112 – Ask for "Giftinformation". If less acute call: +46 010 4566700. (UK) NHS (England or Wales): Dial 111 or 0845 4647 NHS 24 (Scotland): 08454 24 24 24
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### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to the Regulation (EC) No. 1272/2008 (CLP): Skin Sens. 1;H317

#### 2.2 Label elements



Warning

Contain:	Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
H317:	May cause an allergic skin reaction.
P280:	Wear protective gloves.
P333+P313:	If skin irritation or rash occurs: Get medical advice/attention.

#### 2.3 Other hazards

<b>Other hazards which do not result in classification</b>	-
<b>Substance meets the criteria for PBT under Regulation EC No. 1907/2006, appendix XIII</b>	PBT: No
<b>Substance meets the criteria for PBT under Regulation EC No. 1907/2006, appendix XIII</b>	vPvB: No

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**
**3.2. Mixtures:** Solutions containing the following declarable preservative:

No	Product/ingredient name	EC-number	CAS-number	REACH registration number	Conc. (weight-%)	Classification Regulation (EC) No. 1272/2008 [CLP]
	CMI/MIT* (Index No.: 613-167-00-5)	-	55965-84-9	-	0.0025-0.025	Skin Corr. 1A;H314 Skin Sens. 1;H317 Acute Tox. 3;H301+H311+H331 Eye Dam. 1;H318 Resp. Sens. 1;H334 Aquatic Acute 1;H400 Aquatic Chronic 1;H410

\* CMI/MIT =

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

See section 16 for the full text of the H-phrases declared above.

**SECTION 4: FIRST-AID MEASURES**
**4.1 Description of first aid measures**

<b>Inhalation:</b>	Remove to fresh air, rest. Call a physician if the complaints persist.
<b>Skin contact:</b>	Remove contaminated clothing and wash skin with water and mild soap. If irritation persists: seek medical advice.
<b>Eye contact:</b>	Keep eyelids well apart. Rinse with water for a couple of minutes. Call a physician if the complaints persist.
<b>Ingestion</b>	Wash mouth properly with water. If victim is conscious and alert, give 2-4 cupfuls of milk/water to dilute the substance in stomach. Call a physician if the complaints persist.

**4.2 Most important symptoms and effects, both acute and delayed**
**Potential acute health effects**

<b>Inhalation/Skin/ Eye/Ingestion:</b>	Skin contact may cause an allergic skin reaction. Exposure to high airborne concentrations, may cause irritation, dizziness and sickness. Ingestion of larger amounts may cause sickness and vomiting.
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**4.3 Indication of any immediate medical attention and special treatment needed**

<b>Ingestion:</b>	Treat symptomatically.
<b>Specific treatments:</b>	In case of unconsciousness: Seek medical advice immediately. Show this safety data sheet to a physician or emergency ward.

**SECTION 5: FIREFIGHTING MEASURES**
**5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	Dry chemical, foam, water spray or carbon dioxide.
<b>Unsuitable extinguishing media</b>	Waterjet.

**5.2 Special hazards arising from the substance or mixture**

<b>Hazards from the substance or mixture</b>	None.
<b>Hazardous thermal decomposition products</b>	None. Not combustible.

**5.3 Advice for firefighters**

<b>Special protective actions for fire-fighters</b>	Not applicable.
<b>Special protective equipment for firefighters</b>	Use breathing apparatus with an independent source of air.
<b>Further information</b>	Not applicable.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**
**6.1 Personal precautions, protective equipment and emergency procedures**

<b>For non-emergency personnel</b>	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

**6.2 Environmental precautions**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**6.3 Methods and materials for containment and cleaning up**

<b>Small spill</b>	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up. Alternatively absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
<b>Large spill</b>	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

**6.4 Reference to other sections**

<b>Reference to other sections</b>	See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.
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**SECTION 7: HANDLING AND STORAGE**
**7.1 Precautions for safe handling**

<b>Protective measures</b>	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	Provide adequate ventilation. Avoid contact with skin, eyes and clothing. Wash promptly if skin becomes contaminated. Change contaminated clothes. After work, wash hands with water and mild soap. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**7.2 Conditions for safe storage, including any incompatibilities**

<b>Storage:</b>	Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10), food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
<b>Further information:</b>	Not applicable

**7.3 Specific end use(s)**

Reagent for in vitro diagnostic use.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**
**8.1 Control parameters**
**Occupational exposure limits:**

Chemical name	European Union	United Kingdom	France	Spain	Germany
CMI/MI (CAS No. 55965-84-9)	None.	None.	None.	None.	None.
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
CMI/MI (CAS No. 55965-84-9)	None.	None.	None.	None.	None.
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
CMI/MI (CAS No. 55965-84-9)	None.	None.	None.	None.	None.

<b>Recommended monitoring procedures</b>	Not relevant
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**Derived effect levels**

Product/ingredient name	Type	Exposure	Value	Population	Effects
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<b>Predicted effect concentrations</b>	Not available
<b>PNEC Summary</b>	Not available

**8.2 Exposure controls**

<b>Appropriate engineering controls</b>	Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Otherwise, use local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
<b>Hygiene measures</b>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>Respiratory protection</b>	Not relevant during normal condition. In case of inadequate ventilation use an approved mask (EN140) with particlefilter type P2. The filter has a limited lifetime and must be changed. Read the instruction.
<b>Eye/face protection</b>	Safety glasses or face shield (EN166) shall be worn.
<b>Hand protection</b>	Chemical-resistant, impervious gloves in neoprene rubber, butyl rubber or nitril rubber complying with an approved standard (EN374) shall be worn.
<b>Body protection</b>	Wear suitable protective clothing.
<b>Environmental exposure controls</b>	Not applicable

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**
**9.1 Information on basic physical and chemical properties**

Physical state	Liquid
Colour	n.d
Odour	n.d
Odour threshold	n.a
Solubility(ies)	Soluble in water
pH (product)	n.d
Melting point/freezing point	n.d
Initial boiling point and boiling range	n.d
Flash point	n.a
Evaporation rate (butyl acetate = 1)	n.d
Flammability (solid, gas)	n.a
Upper/lower flammability or explosive limits	n.a
Combustion rate	n.a
Upper/lower flammability or explosive limits	n.a
Vapour pressure (at 20°C)	n.d
Vapour density	n.a
Relative density (Water = 1)	n.d
Partition coefficient (n-octanol/water):	n.a
Autoignition temperature	n.d
Decomposition temperature	n.d
Viscosity	n.d
Explosive properties	n.a
Oxidising properties	n.a

n.a = not applicable, n.d = not determined

**9.2 Other information**

None.

**SECTION 10: STABILITY AND REACTIVITY**

<b>10.1 Reactivity</b>	Non-reactive
<b>10.2 Chemical stability</b>	Stable under normal conditions of use and storage.
<b>10.3 Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	Heating and direct sunlight.
<b>10.5 Incompatible materials</b>	Contact with acids liberates very toxic gas. Reacts with metals.
<b>10.6 Hazardous decomposition products</b>	Primarily Carbon oxides.

**SECTION 11: TOXICOLOGICAL INFORMATION**
**11.1 Information on toxicological effects**
**Acute toxicity**

Hazard class	Data	Test	Data source
Inhalation	LC <sub>50</sub> (rat) => 4,62 mg/l/4h (CMI/MI)	No info	EU Biocide
Dermal	LD <sub>50</sub> (rabbit) = 660 mg/kg (CMI/MI)	No info	EU Biocide
Oral	LD <sub>50</sub> (rat) = 53 mg/kg (CMI/MI)	No info	RTECS
Corrosion/irritation:	Skin and eye corrosion, rabbit (CMI/MI)	Draize	IUCLID
Sensitization:	Skin sensitising (CMI/MI)	Buehler	EU Biocide
CMR:	No available or applicable data.	-	-

**Sensitization by inhalation/skin contact**

Contact with skin may cause sensitization. Symptoms are redness, swelling and itching.

**Germ cell mutagenicity**

Insufficient data.

**Carcinogenicity**

The chemical structure does not indicate any carcinogenic effects.

**Reproduction toxicity**

The chemical structure does not indicate any reproduction toxic effects.

**Developmental toxicity**

The chemical structure does not indicate any teratogenic effects.

**Specific target organ toxicity (single exposure)**

STOT assessment single dos toxicity:

Based on available information an organ specific toxicity is not expected for this mixture.

**Repeated dose toxicity and specific organ toxicity (repeated exposure)**

Based on available information an organ specific toxicity is not expected for this mixture.

**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity****12.1.1 Acute toxicity in the aquatic environment for CMI/MI**

Test	Value/unit (mg/l)	Test method	Exp. time (h)	Species
Fish LC <sub>50</sub>	0.19	--	96	Salmo gairdneri
Daphnia EC <sub>50</sub>	0.028	--	48	Crassostrea virg.
Algea EC <sub>50</sub>	0.018	--	96	Selenastrum cap.

**12.2 Persistence and degradability**

<b>Conclusion/Summary</b>	CMI/MI is not rapidly degradable.
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**12.3 Bioaccumulative potential**

<b>Conclusion/Summary</b>	CMI/MI: Log K <sub>ow</sub> > 5 (significant bioaccumulation).
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**12.4 Mobility in soil**

<b>Soil/water partition coefficient (K<sub>oc</sub>)</b>	No data.
<b>Mobility</b>	No data.

**12.5 Results of PBT and vPvB assessment**

<b>PBT</b>	Not applicable
<b>vPvB</b>	Not applicable

**12.6 Other adverse effects**

None known.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

<b>Method of disposal</b>	The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
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<b>Hazardous waste</b>	Within the present knowledge of the supplier, this product is regarded as hazardous waste.
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**European Waste Catalogue (EWC)**

<b>EWC Waste Code</b>	<b>Type of waste</b>
16 05 08	Chemicals consisting of or containing dangerous substances
15 02 02	Absorbent material containing residues of or contaminated by dangerous substances

**Packaging**

Method of disposal	Incineration.
Special precautions	None.

**SECTION 14: TRANSPORT INFORMATION**

Product classified as dangerous goods:  Yes  No  Not decided

	ADR/RID	ADN/ADNR	IMDG	IATA
<b>14.1 UN number</b>	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2 UN proper shipping name</b>	--	--	--	--
<b>14.3 Transport hazard class(es)</b>	--	--	--	--
<b>14.4 Packing Group</b>	--	--	--	--
<b>14.5 Environmental hazards</b>	--	--	--	--
<b>14.6 Special precautions for user</b>	Not available	Not available	Not available	Not available
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	-			

**SECTION 15: REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
 Must not be used by persons under 18 years of age.

**EU Regulation (EC) No. 1907/2006 (REACH)**

<b>REACH Status</b>	In compliance. Pre-registration status: All components are listed or exempted.
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**Annex XIV - List of substances subject to authorization**

**Substances of very high concern**  
 None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**  
 Not applicable.

**15.2 Chemical Safety Assessment**  
 No CSR.

**15.3 Other information**

<b>Tariff Code harmonized system</b>	Not applicable
<b>The EU Seveso Directive</b>	Not applicable

**International regulations**



Chemical Weapons Convention List Schedule I Chemicals	Chemical Weapons Convention List Schedule II Chemicals	Chemical Weapons Convention List Schedule III Chemicals
Not regulated	Not regulated	Not regulated

**SECTION 16: OTHER INFORMATION****Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II**

**Disclaimer:** The above information is based on data available to us and is believed to be correct. Since the information may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of its use and all persons receiving it must make their own determination of the effects, properties, protections and disposal which pertain to their particular conditions. No representation, warranty, or guarantee, express or implied (including a warranty of fitness or merchantability for a particular purpose), is made with respect to the materials, the accuracy of this information, the results to be obtained from the use thereof, or the hazards connected with the use of the material. Caution should be used in the handling and use of the material. The above information is offered in good faith and with the belief that it is accurate. As of the date of issuance, we are providing all information relevant to the foreseeable handling of the material. However, in the event of an adverse incident associated with this product, this Safety Data Sheet is not, and is not intended to be, a substitute for consultation with appropriately trained personnel.

**THE PRODUCER'S NOTES**

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**LIST OF HAZARD STATEMENTS MENTIONED UNDER SECTION 3**

No.	H-Statements
H301+311+331	Toxic if swallowed, in contact with skin or if inhaled.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**Other information**

No special training is required. However, the user should be well instructed in the execution of his/her task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.