

SAFETY DATA SHEET C4d ELISA kit and REAGC4d reagents

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

1.1 Product identifier

Product name: C4d, ELISA kit

Complement C4d Capture Antibody Complement C4d Detection Antibody Complement C4d Calibrator Stock (Antigen)

Product description	Content	Product code
C4d, ELISA kit consiting of the following reagents	 Antibody-coated plate Calibrator 1-6 High Control Low Control Dilution Buffer Conjugate Substrate Wash Buffer (30xConc.) Stop Solution 	COMPL C4d RUO
Complement C4d Capture Antibody	Capture	REAGC4dCAP*
Complement C4d Detection Antibody	Detection	REAGC4dDET*
Complement C4d Calibrator Stock (Antigen)	Calibrator	REAGC4dAG

^{*}no declarable substances/mixtures

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

Use of the product Kit consisting of different reagents for research use. Single components for research

use.

1.3 Details of the Supplier of the safety data sheet

Company Svar Life Science AB Address Lundvägen 151

Zip code/Place SE-212 24 Malmö, Sweden

Telephone +46 40 53 76 00

Website www.svarlifescience.com info@svarlifescience.com

1.4 Emergency telephone number

Emergency telephone (Sweden) Acute: 112 – Ask for "Giftinformation". If less acute call: +46 010 4566700.

number (UK) NHŚ (England or Wales): Dial 111 or 0845 4647 NHS 24

(Scotland): 08454 24 24 24

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to the Regulation (EC) No. 1272/2008 (CLP):

Wash Buffer (30x Conc.): Skin Sens.1; H317 Aquatic Chronic 3; H412

The remaining reagents are not classified as dangerous.



2.2 Label elements

Wash Buffer (30x Conc.), Conjugate



WARNING

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

May cause an allergic skin reaction H317

H412 Harmful to aquatic life with long lasting effects.

P261 Avoid breathing spray.

Avoid release to the environment. P273

P280 Wear protective gloves.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

C4d, ELISA kit: Calibrator 1-6, High Control, Low Control, Dilution Buffer, Diluent

Complement C4d Calibrator Stock

EUH208 Contains "Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and

2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)" May produce an allergic reaction.

EUH210: Safety data sheet available on request.

Stop Solution

EUH210: Safety data sheet available on request.

The remaining reagents require no CLP labelling.

2.3 Other hazards

not result in classification

Other hazards which do Contains material derived from human donors. The material has been tested for hepatitis B, hepatitis C and antibodies for HIV, and found to be negative. The product is considered to be biological agents in group 2.



Biohazard.

Substance meets the criteria for PBT under Regulation EC No. 1907/2006, appendix XIII

Substance meets the criteria for PBT under Regulation EC No. 1907/2006, appendix

vPvB: No

PBT: No

Endocrine disrupting

properties

The substances are not identified as having endocrine disrupting properties in accordance with the criteria set out in Regulation 2017/2100 or Regulation 2018/605.



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

The products listed under section 1.1 contain the following declarable preservative unless specified otherwise.

REACH Classification Product/ingredient name EC-number CAS-Conc. number registration (weight-%) Regulation (EC) No. 1272/2008 [CLP] number

Wash Buffer (30x Conc.), Conjugate

CMI/MI* 55965-84-9 -< 0.015 Acute Tox. 3; H301 (ATE = 100mg/kg)

(Index No.: 613-167-00-5) 2682-20-4 Acute Tox. 2; H310 (ATE = 50mg/kg) Acute Tox. 3; H331 (ATE =

0,05mg/l/4H) Eye Dam. 1; H318 Skin Corr. 1C; H314

SCL:

Skin Corr. 1C; H314: C ≥ 0,6% Eye Dam. 1; H318: C ≥ 0,6% Eye Irrit. 2; H319: 0,06% < C < 0,6% Skin Irrit. 2; H315: 0,06% < C <

Skin Sens. 1A; H317 (SCL = 0.0015%) Aquatic Acute 1; H400 (M = 100) Aquatic Chronic 1; H410 (M = 100)

Calibrator 1-6, High Control, Low Control, Dilution Buffer, Diluent, Calibrator

55965-84-9 -< 0.0015 Acute Tox. 3; H301 (ATE = 100mg/kg) (Index No.: 613-167-00-5)

Acute Tox. 2; H310 (ATE = 50mg/kg)

Acute Tox. 3; H331 (ATE =

0,05mg/l/4H) Eye Dam. 1; H318 Skin Corr. 1C; H314

SCL:

Skin Corr. 1C; H314: C ≥ 0,6% Eye Dam. 1; H318: C ≥ 0,6% Eye Irrit. 2; H319: 0,06% < C < 0,6% Skin Irrit. 2; H315: 0,06% < C <

0.6%

Skin Sens. 1A; H317 (SCL = 0.0015%) Aquatic Acute 1; H400 (M = 100) Aquatic Chronic 1; H410 (M = 100)

Stop Solution

Sulphuric acid % 231-639-5 7664-93-9 2.5-2.66

Skin Corr. 1A; H314

SCL:

Eye Irrit. 2; H319: 5% ≤ C < 15% Skin Corr. 1A; H314: C ≥ 15% Skin Irrit. 2; H315: 5% ≤ C < 15%

* CMI/MI = Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2Hisothiazol-3-one [EC no. 220-239-6] (3:1)

The remaining reagents contain no declarable substances.

See section 16 for the full text of the classifications declared above.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: Remove to fresh air, rest. Call a physician if the complaints persist.

Skin contact: Remove contaminated clothing and footwear. Wash the skin properly with soap and

water.

Keep eyelids well apart. Rinse with water for a couple of minutes. Call a physician if Eye contact:

the complaints persist.





Ingestion 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

Inhalation: Exposure to high airborne concentrations of the reagents in this kit may cause

irritation in the respiratory tract, dizziness and sickness.

Skin contact: Exposure to the skin may cause an allergic skin reaction.

Eye contact: May cause mild eye irritation.

Ingestion: Ingestion of larger amounts may cause sickness and vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Ingestion: Treat symptomatically. **Specific treatments:** No specific treatment.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing

Dry chemical, foam, water spray or carbon dioxide.

media

Unsuitable Waterjet

extinguishing media

5.2 Special hazards arising from the substance or mixture

None

Hazards from the

substance or mixture

Hazardous thermal

decomposition

Decomposition products may include the following materials: carbon monoxide, carbon

dioxide and nitrous gases.

products

5.3 Advice for firefighters

Special protective

actions for fire-fighters

Special protective

equipment for fire-

fighters

Further information Not applicable

SECTION 6. ACCIDENTAL RELEASE MEASURES

Not Applicable.

6.1 Personal precautions, protective equipment and emergency procedures

Not relevant. The product will not burn.

For non-emergency

personnel

Keep non-emergency personnel away from the spillage area..

For emergency responders

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

Do not empty into drains – see section 12. Inform appropriate authorities in accordance with local regulations.

6.3 Methods and materials for containment and cleaning up

Small spill Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if

> water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Large spill The kit only contains small amounts of each reagent.



6.4 Reference to other sections

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures
Advice on general
occupational hygiene

Put on appropriate personal protective equipment (see Section 8).

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

Storage:

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.

Further information:

Not applicable

7.3 Specific end use(s)

Reagents for research use.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

<u> </u>	1	1	1 -	10 .	
Chemical name	EU	United	France	Spain	Germany
		Kingdom		-	
CMI/MI	None.	None.	None.	None.	None.
(CAS No. 55965-84-9)					
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
CMI/MI	None.	None.	None.	None.	None.
(CAS No. 55965-84-9)					
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
CMI/MI	None.	None.	None.	None.	None.
(CAS No. 55965-84-9)					

Occupational exposure limits

Chemical name	EU	United Kingdom	France	Spain	Germany
Sulphuric acid (CAS No. 7664-93-9)	0,05 mg/m³ thoracic fraction	0,05 mg/m³ thoracic fraction	0,05 mg/m³ thoracic fraction	0,05 mg/m ³	STEL: 0.1 mg/m ³ MAK: 0.1 mg/m ³ Inhalable aerosols
Chemical name	Italy	Sweden	Netherlands	Finland	Denmark
Sulphuric acid (CAS No. 7664-93-9)	TWA 0.05 mg/m ³	TWA 0.1 mg/m ³ STEL 0.2mg/m ³	0,05 mg/m³ thoracic fraction	TWA 0.05 mg/m³ STEL 0.1 mg/m³ thoracic fraction	TWA 0.05 mg/m ³ STEL 0.1 mg/m ³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Sulphuric acid (CAS No. 7664-93-9)	MAK: 0.1 mg/m ³ STEL: 0.2 mg/m ³ Inhalable aerosols	STEL: 0.2 mg/m ³ MAK: 0.1 mg/m ³ Inhalable aerosols	NDSCh: 1 mg/m³ NDS: 3 mg/m³		0,05 mg/m ³

Recommended monitoring procedure

Not relevant

Derived effect levels

Product/ingredient Type Exposure Value Population Effects name

LABEL-DOC-0318 7.0



Predicted effect concentrations PNEC Summary

Not available

Not available

8.2 Exposure controls

Appropriate engineering

controls

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.

Hygiene measures 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.

Respiratory protection N

Not relevant during normal condition.

Eye/face protection

Use safety glasses (according to EN166) when there is risk of splashes.

Hand protection

Wear protective gloves (according to EN374) of butyl rubber or nitrile rubber.

Body protection

Wear suitable protective clothing.

Environmental exposurecontrols

Not applicable

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties of the reagents

C4d, ELISA kit	Calibrator	High Control	Low Control	Dilution Buffer	Conjugate	Substrate	Wash Buffer	Stop Solution
Physical state	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid
Colour	Colourless	Red	Green	Red	Blue	Colourless	Colourless	Colourless
Odour	Odourless	Odourless	Odourless	Odourless	Odourless	Odourless	Odourless	Odourless
Melting point/freezing point	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d
Boiling point or initial boiling point and boiling range	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d
Flammability (solid, gas)	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a
Lower and upper explosion limit	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a
Flash point	> 100°C	> 100°C	> 100°C	> 100°C	> 100°C	> 100°C	> 100°C	> 100°C
Auto-ignition temperature	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d
Decomposition temperature	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d
pH	n.d	n.d	n.d	n.d	n.d	n.d	n.d	< 1
Kinematic viscosity	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d
Solubility (in water)	Soluble	Soluble	Soluble	Soluble	Soluble	Soluble	Soluble	Soluble
Partition coefficient n- octanol/water (log value):	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a
Vapour pressure	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d
Density and/or relative density	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d
Relative vapour density:	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a
Particle characteristics:	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a

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



REAGC4d	REAGC4dCAP	REAGC4dDET	REAGC4dAG
Physical state	Liquid	Liquid	Liquid
Colour	Colourless	Colourless	Colourless
Odour	Odourless	Odourless	Odourless
Melting point/freezing point	n.d	n.d	n.d
Boiling point or initial	n.d	n.d	n.d
boiling point and boiling			
range			
Flammability (solid, gas)	n.a	n.a	n.a
Lower and upper explosion limit	n.a	n.a	n.a
Flash point	> 100°C	> 100°C	> 100°C
Auto-ignition temperature	n.d	n.d	n.d
Decomposition temperature	n.d	n.d	n.d
pH	n.d	n.d	n.d
Kinematic viscosity	n.d	n.d	n.d
Solubility (in water)	Soluble	Soluble	Soluble
Partition coefficient n- octanol/water (log value):	n.a	n.a	n.a
Vapour pressure	n.d	n.d	n.d
Density and/or relative density	n.d	n.d	n.d
Relative vapour density:	n.a	n.a	n.a
Particle characteristics:	n.a	n.a	n.a

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

9.2 Other information

Not applicable

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity Non-reactive

10.2 Chemical stability Stabile under normal conditions of use and storage.

10.3 Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Condition to avoid Avoid direct sunlight.

10.5 Incompatible

materials

None

10.6 Hazardous decomposition products Carbon monoxide, carbon dioxide and nitrous gases.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 **Acute toxicity**

Based on available data, the classification criteria are not met.

Calculated data:

LD₅₀ oral, rat: > 2000 mg/kg LD₅₀ dermal, rat: > 2000 mg/kg

Irritation/Corrosion

Based on available data, the classification criteria are not met.

Experimental/calculated data: Corrosive or irritating to the skin, rabbit: Not irritating.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.



Experimental/calculated data: Serious eye damage/eye irritation, rabbit: Not irritating.

Respiratory or skin sensitization

Skin Sens. 1;H317 May cause an allergic skin reaction.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

None known.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Acute toxicity in the aquatic environment for	for CMI/MI
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Test	Value/unit (mg/l)	Test method	Exp. time (h)	Species
Fish LC ₅₀	0.19		96	Salmo gairdneri
Daphnia EC ₅₀	0.028		48	Crassostrea virg.
Algea EC ₅₀	0.018		96	Selenastrum cap.

12.2 Persistence and degradability

Conclusion/Summary CMI/MI is not rapidly degradable

12.3 Bioaccumulative potential

Conclusion/Summary CMI/MI: Log Kow > 5 (significant bioaccumulation).

12.4 Mobility in soil

Soil/water partition Not available

coefficient (KOC)

Mobility Not available

12.5 Results of PBT and vPvB assessment

PBT Not applicable vPvB Not applicable

12.6 Endocrine disrupting properties

Conclusion None known.

12.7 Other adverse effects

Conclusion None known.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

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Method of disposal 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.

Used kit may be potentially infectious material and shall be disposed as a hazardous

waste.

Hazardous waste Within the present knowledge of the supplier, this product is not regarded as

hazardous waste, as defined by EU Directive 2008/98/EC.

Used kit may be potentially infectious material and shall be disposed as a hazardous

waste.

European Waste Catalogue (EWC)

EWC Waste Code Type of waste

18 01 07 Product

15 02 03 Absorbents, filter materials, wiping cloths and protective clothing

18 01 03* Used kit

Packaging

Method of disposal Incineration.
Special precautions None.

SECTION 14. TRANSPORT INFORMATION

Product classified as dangerous goods: X No Not decided ☐ Yes ADR/RID ADN/ADNR **IMDG** ΙΔΤΔ 14.1 UN number or ID number Not regulated Not regulated Not regulated Not regulated 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing Group 14.5 Environmental hazards 14.6 Special precautions for user Not available Not available Not available Not available 14.7 Maritime transport in bulk Not applicable Not applicable Not applicable Not applicable according to IMO instruments Used kit is dangerous goods by transportation in class 6.2, UN 3291. **Additional information** Contact the manufacturer for further information.

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

REACH Status In compliance. Pre-registration status: All components are listed or exempted.

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

The reagents in this kit contain substances for which Chemical Safety Assessments still are required.

15.3 Other information

Tariff Code - harmonized Not applicable

system

The EU Seveso Directive Not applicable

International regulations

Chemical Weapons Convention Chemical Weapons Convention Chemical Weapons Convention List

List

Schedule III Chemicals **Schedule I Chemicals** Schedule II 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 quarantee, 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

LIST OF HAZARD STATEMENTS MENTIONED UNDER SECTION 3

No.	H-Statements
H301	Toxic if swallowed.
H310	Fatal if in contact with skin.
H331	Toxic if inhaled.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

SECTION 17. DOCUMENT HISTORY

Version	Valid from (date)	Changes
1.0	17-Aug-2018	New SDS for new product
2.0	31-Jan-2020	According to CR-00019 company name change from Euro Diagnostica to SVAR Life Science. CR-00223 introducing new product/platform; Complement C4d Flexi, and added Ref code: FXC4D and item no 1340. Updated emergency number.





3.0	21-Apr-2020	According to CR-00278 individual Complement C4d Flexi reagents (Ref code: FX1342-FX1347) were specified in the SDS instead of the kit (FX1340). It was clarified that FX1342-FX1343 (antibodies) do not contain the declarable preservative.
4.0	04-Aug-2023	Review according to CR-00523. Editorial changes.
5.0	04-Mar-2024	New revision according to CR-00688 (REAGC4dDET, REAGC4dCAP and REAGC4dAG added)
6.0	31-Oct-2024	Section 1.1 correction of C4d kit content from antigen coated to antibody coated plate. Removed Flexi products according to CR-00689.
7.0	14-May-2025	Added conjugate in section 2.2 and 3.2 according to CR-00801