

MATERIAL SAFETY DATA SHEET

Encephalitozoon cuniculi whole cell antigen suspension

1. Identification of the substance/preparation and of the company/undertaking

Product name: Encephalitozoon cuniculi whole cell antigen suspension
Chemical formula: N/A
Art. no.: A18-2002
Manufacturer: Medicago AB
Danmark Berga
SE-755 98 Uppsala
Sweden
tel.: +46 (0) 18 56 11 80
fax: +46 (0) 18 56 11 88
Emergency Phone: 112 (Sweden)

2. Hazards identification

Special indication of hazards to humans and the environment

Formalin is toxic by inhalation (danger of serious irreversible effects), in contact with skin and if swallowed. May cause sensitization by skin contact. Limited evidence of a carcinogenic effect. Product concentrations are low and are not classified as hazardous.

3. Composition/information on ingredients

Chemical name:	CAS no.:	EC no.:	Symbol:	Amount	Index no.:
Encephalitozoon cuniculi spores	-- -	-	Approx. 30x10 ⁷ /ml	-	
	R-phrases:	S-phrases:			
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Chemical name:	CAS no.:	EC no.:	Symbol:	Amount	Index no.:
Formaldehyde solution Sigma-Aldrich 533998	50-00-0	200-001-8	-	> 35%	605-001-00-5
	R-phrases:	S-phrases:			
	R11, R23/24/25 R34, R39, R40, R43	S26, S36/37/39 S45			

4. First-aid measures

Ingestion: In case of ingestion, immediately flush mouth with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention. Loosen tight clothing such as a collar, tie, belt or waistband.

Inhalation: If inhaled, move to fresh air. If breathing becomes difficult give artificial respiration or oxygen. Get medical attention.

Skin contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing and clean shoes before reuse. Get medical attention.

Eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

5. Fire-fighting measures

Flammability of the product: Non-combustible at high temperature.

Extinguishing media: Use dry chemical powder, water spray, carbon dioxide or alcohol resistant foam.

Special fire-fighting procedures: Wear breathing apparatus and full turnout gear.

6. Accidental release measures

Personal precautions:	Safety goggles. Full suit. Wear suitable respiratory equipment, boots and gloves. Avoid breathing vapours, mist or gas. Keep away from sources of ignition. No smoking.
Spill and leak:	Use appropriate tools to put the solid in a convenient waste disposal container. Avoid raising dust. Finish cleaning by spreading water on the contaminated surface and dispose of according to requirements. Ventilate the room.

7. Handling and storage

Handling:	Keep away from sources of ignition. No smoking. Prevent the build up of electric charge. Avoid contact with eyes, skin and clothing. Avoid inhalation of vapour or mist.
Storage:	Keep tightly closed. Store at +2 - 8 °C in a dry and ventilated place. Opened containers must be carefully released and kept upright to prevent leakage.

8. Personal protection/exposure controls



Protective clothing:	
Personal protective equipment:	Safety goggles, gloves, wear suitable respiratory equipment, lab coat.
Engineering measures:	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Hygiene measures:	Wash hands after handling compounds and before eating, smoking and using lavatory.

9. Physical and chemical properties

Appearance	Physical state: clear liquid with pungent odour.	
Property	Value	At Temperature or Pressure
pH	No data available	
Molecular Weight	N/A	
Boiling Point/BP Range	100 °C	at 1.013 hPa
MP/MP Range	No data available	
Freezing Point	N/A	
Auto ignition Temp	N/A	
Oxidizing Properties	N/A	
Explosive Properties (flashpoint)	56 °C	in closed cup
Explosion Limits	7 % (v) - 70 % (v)	
Vapour Pressure	53 hPa	at 39 °C
SG/Density	N/A	
Partition Coefficient	log Pow: 0.35 n-octanol/water	
Viscosity	N/A	
Vapour Density	N/A	
Saturated Vapour Conc.	N/A	
Evaporation Rate	N/A	
Bulk Density	N/A	
Decomposition Temp	N/A	
Solvent Content	N/A	
Water Content	N/A	
Surface Tension	N/A	
Conductivity	N/A	
Miscellaneous	N/A	
Solubility	Completely soluble	

10. Stability and reactivity

Stability:	Stable if stored under recommended storage conditions.
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Materials to avoid:	Strong bases, Acids, Oxidizing reagents, Alkali metals, Amines, Acid chlorides, Acid anhydrides, Reducing agents, Peroxides, Isocyanates, Phenol, Aniline
Hazardous decomposition products:	Carbon oxides formed under fire conditions
Hazardous polymerization:	Will not occur

11. Toxicological information

Signs and symptoms of exposure: Spasm, inflammation and oedema of the larynx and bronchi, pneumonitis, pulmonary oedema, burning sensation, cough, wheezing, laryngitis, shortness of breath and headache.

Acute toxicity: N/A

Sensitisation: N/A

Chronic exposure: IARC: 1-GROUP 1: Carcinogenic to humans (Formaldehyde)

Effects on health:

- Toxic if absorbed through skin. Causes skin burns
- Toxic if inhaled. The material is extremely destructive to the tissue of the mucus membranes and upper respiratory tract.
- Toxic if swallowed. Causes burns.
- Can cause eye burns.

Target organs: Eyes, Kidney, Liver, heart, Central nervous system

12. Ecological information

Ecotoxicity: N/A

Toxicity of the products of

biodegradation: N/A

13. Disposal considerations

Dispose of all used or unused reagent as well as any other contaminated disposable materials following procedures for infectious or potentially infectious products. It is the responsibility of each laboratory to handle waste and effluents produced according to their nature and degree of hazardousness and to treat and dispose of them in accordance with any applicable regulations.

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport information

RID/ADR UN-Number 1198 Class 3 (8) Packing group: III
Shipping name: *Encephalitozoon cuniculi* whole cell antigen suspension in formaldehyde solution, flammable

IMDG UN-Number 1198 Class 3 (8) Packing group: II EMS-No: F-E, S-C
Shipping name: *Encephalitozoon cuniculi* whole cell antigen suspension in formaldehyde solution, flammable
Marin pollutant: No

IATA UN-Number 1198 Class 3 (8) Packing group: III
Shipping name: *Encephalitozoon cuniculi* whole cell antigen suspension in formaldehyde solution, flammable

15. Regulatory information

Labelling according to EC Directives

Hazard symbol: T (Toxic)

R-phrase(s)

R11 Highly flammable

R23/24/25 R34 R39/23/24/25	swallowed.	Toxic by inhalation, in contact with skin and if swallowed. Causes burns Toxic: danger of very serious irreversible effects through inhalation in contact with skin and if
R40 R43		Limited evidence of carcinogenic effect. May cause sensitization by skin contact.
<u>S-phrase(s)</u> S26	advice.	In case of contact with eyes, rinse immediately with plenty of water and seek medical
S36/37/39 S45		Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately.

Hazardous components which must be listed on the label.

50-00-0	Formaldehyde
67-56-1	Methanol

Not contagious according to UN:NR 3373.

16. Other information

Precautions and Disclaimer: For laboratory use only. Not for drug, household or other uses.

Revision date: 2010-07-28

Notice to reader

To the best of our knowledge, the information given is accurate. However, we do not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.