

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

Identification of the substance/preparation

Product code 12372003
Product name CD HYBRIDOMA AGT™

Company/Undertaking Identification

Life Technologies
5791 Van Allen Way
PO Box 6482
Carlsbad, CA 92008
+1 760 603 7200

LIFE TECHNOLOGIES LIMITED
3 FOUNTAIN DRIVE
INCHINNAN BUSINESS PARK
PAISLEY, PA4 9RF
SCOTLAND
44-141 814-6100

24 hour Emergency Response:

866-536-0631
301-431-8585
Outside of the U.S. ++1-301-431-8585

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

2. Hazards identification

In accordance with local and national regulations,

The product is classified and labelled in accordance with Directive 1999/45/EC. REGULATION (EC) No 1272/2008
Classification according to EU Directives 67/548/EEC or 1999/45/EC.

GHS - Classification

Signal word

not hazardous

Health hazard

not hazardous

Physical hazards

not hazardous

European Union

Revision Date: 17-Oct-2012
Product code 12372003

Page 1 / 8
Product name CD HYBRIDOMA AGT™

Not hazardous

EU Specific Hazard Statements

R-phrases(s)

None

S-phrases(s)

S22 - Do not breathe dust

Principle Routes of Exposure/

Potential Health effects

Eyes

May cause eye irritation with susceptible persons.

Skin

May cause skin irritation in susceptible persons.

Inhalation

May be harmful by inhalation.

Ingestion

May be harmful if swallowed.

Specific effects

Carcinogenic effects

none

Mutagenic effects

none

Reproductive toxicity

none

Sensitisation

none

Target Organ Effects

No known effects under normal use conditions

3. Composition/information on ingredients

Chemical Name	CAS-No.	EINECS-No.	Weight percent
Amino Acids	N/A	-	10-30
Ammonium vanadate	7803-55-6	-	<0.01
Cadmium compounds	None	-	<0.01
Copper compounds, inorganic	None	-	<0.01
Tin compounds, inorganic	None	-	<0.01
Barium compounds	None	-	<0.01
Silver compounds, inorganic	None	-	<0.01
Selenium compounds	none	-	<0.01
Zinc compounds, inorganic	None	-	<0.01

The product contains no substances which at their given concentration, are considered to be hazardous to health. Contact with acids or bleach liberates toxic gases. DO NOT ADD acids or bleach to any liquid wastes containing this product. We recommend handling all chemicals with caution.

4. FIRST AID MEASURES

Skin contact

Rinse with plenty of water. If symptoms arise, call a physician.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Ingestion

Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.

Inhalation

Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

Notes to physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.**Special protective equipment for firefighters**

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Use personal protective equipment.

Methods for cleaning up

Take up mechanically and collect in suitable container for disposal.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

See Section 12 for additional information.

7. HANDLING AND STORAGE**Handling**

Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Storage

Keep in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection**Exposure limits**

Chemical Name	EU OEL (TWA)	EU OEL (STEL)	EU Skin Notation
Amino Acids N/A	None	None	None
Ammonium vanadate 7803-55-6	None	None	None
Cadmium compounds None	None	None	None
Copper compounds, inorganic None	None	None	None
Tin compounds, inorganic None	None	None	None
Barium compounds None	None	None	None
Silver compounds, inorganic None	None	None	None
Selenium compounds none	None	None	None
Zinc compounds, inorganic None	None	None	None

Chemical Name	Austria	Belgium (TWA)	Denmark (TWA)	Finland OEL (TWA)
Amino Acids N/A	None	None	None	None
Ammonium vanadate 7803-55-6	None	None	None	None
Cadmium compounds None	None	None	None	None
Copper compounds, inorganic None	None	None	None	None

Revision Date: 17-Oct-2012
Product code 12372003

Page 3 / 8
Product name CD HYBRIDOMA AGT™

Tin compounds, inorganic None	None	None	None	None
Barium compounds None	None	None	None	None
Silver compounds, inorganic None	None	None	None	None
Selenium compounds none	None	None	None	None
Zinc compounds, inorganic None	None	None	None	None

Chemical Name	France OEL (VME)	Germany OEL (TWA)	Ireland (TWA)	Italy OEL (TWA)
Amino Acids N/A	None	None	None	None
Ammonium vanadate 7803-55-6	None	None	None	None
Cadmium compounds None	None	None	None	None
Copper compounds, inorganic None	None	None	None	None
Tin compounds, inorganic None	None	None	None	None
Barium compounds None	None	None	None	None
Silver compounds, inorganic None	None	None	None	None
Selenium compounds none	None	None	None	None
Zinc compounds, inorganic None	None	None	None	None

Chemical Name	Netherlands OEL (MAC)	Spain OEL (TWA)	United Kingdom
Amino Acids N/A	None	None	None
Ammonium vanadate 7803-55-6	None	None	None
Cadmium compounds None	None	None	None
Copper compounds, inorganic None	None	None	None
Tin compounds, inorganic None	None	None	None
Barium compounds None	None	None	None
Silver compounds, inorganic None	None	None	None
Selenium compounds none	None	None	None
Zinc compounds, inorganic None	None	None	None

Chemical Name	European Union	United Kingdom	France OEL (VME)	Germany OEL (TWA)
Amino Acids N/A	None	None	None	None
Ammonium vanadate 7803-55-6	None	None	None	None
Cadmium compounds None	None	None	None	None
Copper compounds, inorganic None	None	None	None	None
Tin compounds, inorganic None	None	None	None	None

Barium compounds None	None	None	None	None
Silver compounds, inorganic None	None	None	None	None
Selenium compounds none	None	None	None	None
Zinc compounds, inorganic None	None	None	None	None

Chemical Name	Italy OEL (TWA)	Portugal	Netherlands OEL (MAC)	Finland OEL (TWA)
Amino Acids N/A	None	None	None	None
Ammonium vanadate 7803-55-6	None	None	None	None
Cadmium compounds None	None	None	None	None
Copper compounds, inorganic None	None	None	None	None
Tin compounds, inorganic None	None	None	None	None
Barium compounds None	None	None	None	None
Silver compounds, inorganic None	None	None	None	None
Selenium compounds none	None	None	None	None
Zinc compounds, inorganic None	None	None	None	None

Chemical Name	Austria	Denmark	Poland	Switzerland
Amino Acids N/A	None	None	None	None
Ammonium vanadate 7803-55-6	None	None	None	None
Cadmium compounds None	None	None	None	None
Copper compounds, inorganic None	None	None	None	None
Tin compounds, inorganic None	None	None	None	None
Barium compounds None	None	None	None	None
Silver compounds, inorganic None	None	None	None	None
Selenium compounds none	None	None	None	None
Zinc compounds, inorganic None	None	None	None	None

Chemical Name	Ireland	Norway	Spain OEL (TWA)
Amino Acids N/A	None	None	None
Ammonium vanadate 7803-55-6	None	None	None
Cadmium compounds None	None	None	None
Copper compounds, inorganic None	None	None	None
Tin compounds, inorganic None	None	None	None
Barium compounds None	None	None	None

Silver compounds, inorganic None	None	None	None
Selenium compounds none	None	None	None
Zinc compounds, inorganic None	None	None	None

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection

Impervious gloves.

Eye protection

Safety glasses with side-shields.

Skin and body protection

Lightweight protective clothing.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

Prevent product from entering drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form	solid	
Appearance	powder	
Odour	No information available	
Boiling Point/Range	°C No data available	°F No data available
Melting point/range	°C No data available	°F No data available
Flash point	°C No data available	°F No data available
Autoignition temperature	°C No data available	°F No data available
oxidising properties	No information available	
Water solubility	No data available	

10. STABILITY AND REACTIVITY

Stability

Contact with acids or bleach liberates toxic gases. DO NOT ADD acids or bleach to any liquid wastes containing this product.

Materials to avoid

sodium hypochlorite

Hazardous decomposition products

None under normal use.

polymerisation

Hazardous polymerisation does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
Amino Acids	No data available	No data available	No data available

Ammonium vanadate	= 58.1 mg/kg (Rat)	2102 mg/kg (Rat)	=7800µg/m³(Rat)
Cadmium compounds	No data available	No data available	No data available
Copper compounds, inorganic	No data available	No data available	No data available
Tin compounds, inorganic	No data available	No data available	No data available
Barium compounds	No data available	No data available	No data available
Silver compounds, inorganic	No data available	No data available	No data available
Selenium compounds	No data available	No data available	No data available
Zinc compounds, inorganic	No data available	No data available	No data available

Principle Routes of Exposure/ Potential Health effects

Eyes	May cause eye irritation with susceptible persons.
Skin	May cause skin irritation in susceptible persons.
Inhalation	May be harmful by inhalation
Ingestion	May be harmful if swallowed.
Carcinogenic effects	none
Mutagenic effects	none
Reproductive toxicity	none
Sensitisation	none
Target Organ Effects	No known effects under normal use conditions

12. ECOLOGICAL INFORMATION

Ecotoxicity effects	No information available.
Mobility	No information available.
Biodegradation	Inherently biodegradable.
Bioaccumulation	Does not bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

IATA

Proper shipping name	Not classified as dangerous in the meaning of transport regulations.
Hazard class	None
Subsidiary Class	None
Packing group	None
UN-No	None

15. Regulatory information

International Inventories

International Inventories Complies

Chemical Name	EINECS	ELINCS	ENCS	PICCS
Amino Acids	-	-	-	-
Ammonium vanadate	Listed	-	Listed	Listed
Cadmium compounds	-	-	-	-
Copper compounds, inorganic	-	-	-	-
Tin compounds, inorganic	-	-	-	-
Barium compounds	-	-	-	-
Silver compounds, inorganic	-	-	-	-
Selenium compounds	-	-	-	-
Zinc compounds, inorganic	-	-	-	-

Chemical Name	AICS	KECL	DSL	NDSL
Amino Acids	-	-	-	-
Ammonium vanadate	Listed	Listed	Listed	-
Cadmium compounds	-	-	-	-
Copper compounds, inorganic	-	-	-	-
Tin compounds, inorganic	-	-	-	-
Barium compounds	-	-	-	-
Silver compounds, inorganic	-	-	-	-
Selenium compounds	-	-	-	-
Zinc compounds, inorganic	-	-	-	-

16. OTHER INFORMATION

Reason for Revision (M)SDS sections updated

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

End of Safety Data Sheet