

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Identification of the substance or mixture

Product code 12045084
Product name Hybridoma-SFM

Company/undertaking identification

Life Technologies
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 Carlsbad, CA 92008
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Life Technologies
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 Burlington, ONT
 CANADA L7L 6A4
 800/263-6236

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.

SECTION 2: Hazards identification

GHS - Classification

Signal Word
 Not Hazardous

Health hazards
 Not Hazardous

Physical hazards
 Not Hazardous

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
Sensitization	None

Target Organ Effects No known effects under normal use conditions

HMIS

Health	0
Flammability	0
Reactivity	0

SECTION 3: Composition/information on ingredients

Chemical Name	CAS-No	EINECS-No	Weight %
Ammonium Compounds	-	Not Listed	<0.01
Barium compounds	-	Not Listed	<0.01
Tin compounds, inorganic	-	Not Listed	<0.01
Silver compounds, inorganic	-	Not Listed	<0.01
Cadmium compounds	-	Not Listed	<0.01
SELENOUS ACID	7783-00-8	231-974-7	<0.00011

The product contains no substances which at their given concentration, are considered to be hazardous to health.

SECTION 4: First aid measures

Skin contact	Rinse cautiously with water for several minutes. If symptoms occur, obtain medical advice.
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	Remove to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.
Notes to Physician	Treat symptomatically.

SECTION 5: Firefighting measures

Suitable extinguishing media	Water spray. Carbon dioxide (CO ₂). Foam. Dry chemical.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

SECTION 6: Accidental release measures

Personal precautions	Use personal protection equipment.
Methods for cleaning up	Soak up with inert absorbent material.

Environmental precautions

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Prevent further leakage or spillage if safe to do so.

See Section 12 for more information.

SECTION 7: Handling and storage

Handling	Always wear recommended Personal Protective Equipment. No special handling advices are necessary.
Storage	Keep in a dry, cool and well-ventilated place.

SECTION 8: Exposure controls/personal protection

Exposure Limits

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Ammonium Compounds	None	None	None	None
Barium compounds	0.5 mg/m ³	None	0.5 mg/m ³	None
Tin compounds, inorganic	2 mg/m ³	None	2 mg/m ³	None
Silver compounds, inorganic	0.01 mg/m ³	None	0.01 mg/m ³	None
Cadmium compounds	None	None	0.01 mg/m ³ 0.002 mg/m ³	None
SELENOUS ACID	0.2 mg/m ³	None	0.2 mg/m ³	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 Wear safety glasses with side shields (or goggles).

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.

SECTION 9: Physical and chemical properties

General information

Form	Liquid
Appearance	No information available
Odor	No data available
Odor Threshold	No data available
Boiling point / boiling range	°C No data available °F No data available
Melting point / melting 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
Oxidizing properties	No information available
Water solubility	soluble
Viscosity	No data available

SECTION 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 conditions.
polymerization	Hazardous polymerization does not occur.

SECTION 11: Toxicological information

Acute Toxicity

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Ammonium Compounds	= 58.1 mg/kg (Rat)	No data available	=7800µg/m ³ (Rat)
Barium compounds	= 921 mg/kg (Rat)	No data available	No data available
Tin compounds, inorganic	= 700 mg/kg (Rat)	No data available	No data available
Silver compounds, inorganic	= 1173 mg/kg (Rat)	No data available	No data available
Cadmium compounds	No data available	No data available	No data available
SELENOUS ACID	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.
Sensitization	None
Target Organ Effects	No known effects under normal use conditions

SECTION 12: Ecological information

Ecotoxicity	Daphnia magna
Mobility	No information available
Biodegradation	Inherently biodegradable
Bioaccumulation	Material does not bioaccumulate

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
Tin compounds, inorganic		Daphnia magna EC50=55 mg/L (48 h)			

Silver compounds, inorganic		Daphnia magna EC500.0008 - 0.0011 mg/L (48 h) Daphnia magna EC500.0008 - 0.001 mg/L (48 h) Daphnia magna EC50=0.0006 mg/L (48 h)			
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SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

IATA

Proper Shipping Name	No dangerous good in sense of these transport regulations
Hazard Class	None
Subsidiary class	None
Packing group	None
UN-No	None

SECTION 15: Regulatory information

Component	TSCA
Ammonium Compounds (<0.01)	Listed
Barium compounds (<0.01)	Listed
Tin compounds, inorganic (<0.01)	Listed
Silver compounds, inorganic (<0.01)	Listed
Cadmium compounds (<0.01)	-
SELENOUS ACID 7783-00-8 (<0.00011)	Listed

US Federal Regulations

SARA 313

This product contains the following toxic chemical(s) subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories. Please note that if you repackage, or otherwise redistribute, this product to industrial customers, a notice similar to this one should be sent to those customers:.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Ammonium Compounds		<0.01	1.0
Barium compounds		<0.01	1.0
Silver compounds, inorganic		<0.01	1.0
Cadmium compounds		<0.01	0.1
SELENOUS ACID	7783-00-8	<0.00011	1.0

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:.

Component	CAS-No	Weight %	HAPS data
Cadmium compounds (<0.01)		<0.01	Present (including any unique chemical substance that contains Cadmium as part of its infrastructure)
SELENOUS ACID 7783-00-8 (<0.00011)	7783-00-8	<0.00011	Present (including any unique chemical substance that contains Selenium as part of its infrastructure)

US State Regulations

Chemical Name	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK	Illinois - RTK	Rhode Island - RTK
Ammonium Compounds	Listed	-	Listed	-	-
Barium compounds	-	-	Listed	-	-
Tin compounds, inorganic	Listed	-	-	-	-
Silver compounds, inorganic	Listed	-	Listed	Listed	-
Cadmium compounds	-	-	Listed	Listed	-
SELENOUS ACID	Listed	-	Listed	Listed	Listed

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	CAS-No	Weight %	Category
Cadmium compounds		<0.01	Carcinogen

WHMIS Hazard Class

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SECTION 16: Other information

Reason for revision 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 SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"

End of Safety Data Sheet