

Creation Date 23-Apr-2009

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Revision Number 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Name**

**Clones**

**Cat No.**

**Clones**

**Synonyms**

No information available.

**Recommended Use**

For research use only

**Company**

Thermo Fisher Scientific  
Open Biosystem Products  
601 Genone Way # 2100  
Huntsville, AL 35806 United  
States  
Tel: (303) 604-9499  
Fax:(303) 604-9680

**Emergency Telephone Number**

Chemtrec US: (800) 424-9300  
Chemtrec EU: (202) 483-7616

## 2. HAZARDS IDENTIFICATION

**R -phrase(s)**

none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Haz/Non-haz**

Component	Weight %	EC No.	Classification
Peptones 73049-73-7	1	-	-
Water 7732-18-5	80 - 96	EEC No. 231-791-2	-
Sodium chloride 7647-14-5	1	EEC No. 231-598-3	-
Agar 9002-18-0	1 - 2	EEC No. 232-658-1	-
Yeast, ext. 8013-01-2	0.5	EEC No. 232-387-9	-
Glycerol 56-81-5	8	EEC No. 200-289-5	-

For the full text of the R phrases mentioned in this Section, see Section 16

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#### 4. FIRST AID MEASURES

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
<b>Ingestion</b>	Do not induce vomiting. Obtain medical attention.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.
<b>Notes to Physician</b>	Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire..

**Extinguishing media which must not be used for safety reasons**

No information available.

**Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Flash Point  
Method**

Not applicable  
No information available.

**Autoignition Temperature**

No information available.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing.
<b>Environmental Precautions</b>	Should not be released into the environment.
<b>Methods for Containment and Clean Up</b>	Soak up with inert absorbent material Keep in suitable and closed containers for disposal

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**7. HANDLING AND STORAGE**

**Handling** Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist.

**Storage** Keep container tightly closed in a dry and well-ventilated place. Long term. Keep at -80°C.

**Specific use(s)** No information available.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Exposure limits

Component	European Union	The United Kingdom	France	Spain	Germany
Glycerol			VME: 10 mg/m <sup>3</sup>	VLA-ED: 10 mg/m <sup>3</sup>	

  

Component	Italy	Portugal	The Netherlands	Finland	Austria
Glycerol		TWA: 10 mg/m <sup>3</sup>		TWA: 20 mg/m <sup>3</sup>	

  

Component	Switzerland	Poland	Norway	Ireland	Denmark	Australia
Glycerol	STEL: 100 mg/m <sup>3</sup> MAK: 50 mg/m <sup>3</sup>	NDS: 10 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup>

Occupational exposure controls

**Engineering Measures** Ensure adequate ventilation, especially in confined areas Ensure that eyewash stations and safety showers are close to the workstation location

Personal Protective Equipment

**Respiratory Protection**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Eye Protection**

Tightly fitting safety goggles

**Skin and body protection**

Wear appropriate protective gloves and clothing to prevent skin exposure

**Hand Protection**

Protective gloves

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls** No information available.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State</b>	Liquid
<b>Appearance</b>	Yellow Brown
<b>pH</b>	Not applicable
<b>Boiling Point/Range</b>	Not applicable
<b>Melting Point/Range</b>	No information available.
<b>Flash Point</b>	Not applicable

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**10. STABILITY AND REACTIVITY**

**Stability** Stable under normal conditions.

**Conditions to Avoid** Excess heat.

**Incompatible Materials** None known

**Hazardous Decomposition Products** None known

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions .** None under normal processing..

**11. TOXICOLOGICAL INFORMATION**

Acute Toxicity

**Component Information**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	90 mL/kg ( Rat )		
Sodium chloride	3 g/kg ( Rat )	10 g/kg ( Rabbit )	42 g/m <sup>3</sup> ( Rat ) 1 h
Agar	11 g/kg ( Rat )		
Glycerol	12600 mg/kg ( Rat )	21900 mg/kg ( Rat )	570 mg/m <sup>3</sup> ( Rat ) 1 h

Chronic Toxicity

**Carcinogenicity** There are no known carcinogenic chemicals in this product

**Sensitization** No information available.

**Neurological Effects** No information available.

**Mutagenic Effects** Mutagenic effects have occurred in experimental animals.

**Reproductive Effects** Experiments have shown reproductive toxicity effects on laboratory animals.

**Developmental Effects** No information available.

**Target Organs** Liver, Kidney.

**Other Adverse Effects** Tumorigenic effects have been reported in experimental animals.. See actual entry in RTECS for complete information.

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**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium chloride		Pimephals prome: LC50: 7650 mg/L/96H		EC50: 1000 mg/L/48H
Glycerol				h EC50 24 >500 mg/L

**Persistence and Degradability** No information available

**Bioaccumulative Potential** No information available.

**Mobility** No information available.

Component	log Pow
Glycerol	-1.76

**13. DISPOSAL CONSIDERATIONS**

**Waste from Residues / Unused Products** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

**Contaminated Packaging** Empty containers should be taken for local recycling, recovery or waste disposal

**14. TRANSPORT INFORMATION**

**IMDG/IMO** Not regulated

**ADR** Not regulated

**IATA** Not regulated

**15. REGULATORY INFORMATION**

**Labelling**

**R -phrase(s)**  
none

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**S -phrase(s)**

S24/25 - Avoid contact with skin and eyes

**International Inventories**

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Peptones	-	-		X	X	-	X	-	X	X	KE-28131 X
Water	231-791-2	-		X	X	-	X	-	X	X	KE-35400 X
Sodium chloride	231-598-3	-		X	X	-	X	X	X	X	KE-31387 X
Agar	232-658-1	-		XU	X	-	X	-	X	X	KE-00275 X
Yeast, ext.	232-387-9	-		XU	X	-	X	-	X	X	KE-05- 1355 X
Glycerol	200-289-5	-		X	X	-	X	X	X	X	KE-29297 X

**16. OTHER INFORMATION**

**Prepared By** Regulatory Affairs

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**Revision Summary** "\*\*\*\*", and red text indicates revision

**Restrictions on use** No information available.

**Training advice** No information available.

**Literary reference** No information available.

**Disclaimer**

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**End of Safety Data Sheet**