

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 **Yeast Cultures**
Cat No. **Yeast Cultures**
Synonyms No information available.
Recommended Use For research use only

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 Open Biosystem Products
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 Huntsville, AL 35806 United States
 Tel: (303) 604-9499
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2. HAZARDS IDENTIFICATION

R -phrase(s)
 none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Haz/Non-haz

Component	Weight %	EC No.	Classification
Water 7732-18-5	80	EEC No 231-791-2	-
Peptones 73049-73-7	2	-	-
Yeast, ext. 8013-01-2	0.5	EEC No. 232-387-9	-
Sodium chloride 7647-14-5	0.5	EEC No. 231-598-3	-
Glycerin 56-81-5	15	EEC No. 200-289-5	-
Yeasts RR-03602-2	5	-	-

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

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4. FIRST AID MEASURES

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

Keep product and empty container away from heat and sources of ignition

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

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

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7. HANDLING AND STORAGE

Handling Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Storage Long term. Keep container tightly closed. Keep at °C.

Specific use(s) No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Component	European Union	The United Kingdom	Belgium	France	Spain	Germany
Glycerin			TWA: 10 mg/m ³	VME: 10 mg/m ³	VLA-ED: 10 mg/m ³	

Component	Italy	Portugal	The Netherlands	Finland	Austria
Glycerin		TWA: 10 mg/m ³		TWA: 20 mg/m ³	

Component	Switzerland	Poland	Norway	Ireland	Denmark	Australia
Glycerin	STEL: 100 mg/m ³ MAK: 50 mg/m ³	NDS: 10 mg/m ³		TWA: 10 mg/m ³		TWA: 10 mg/m ³

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

Physical State Liquid

Appearance Light brown

pH Not applicable

Boiling Point/Range Not applicable

Melting Point/Range No information available.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Flash Point Not applicable

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
Sodium chloride	3 g/kg (Rat)	10 g/kg (Rabbit)	42 g/m ³ (Rat) 1 h
Glycerin	12600 mg/kg (Rat)	21900 mg/kg (Rat)	570 mg/m ³ (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 No information available.
Reproductive Effects No information available.
Developmental Effects No information available.
Target Organs None known.

12. ECOLOGICAL 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
Glycerin				EC50 24 h >500 mg/L

Persistence and Degradability No information available

Bioaccumulative Potential No information available.

Mobility No information available.

Component	log Pow
Water	-1.87
Glycerin	-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
Water	231-791-2	-		X	X	-	X	-	X	X	X
Peptones	-	-		X	X	-	X	-	X	X	KE-28131 X
Yeast, ext.	232-387-9	-		XU	X	-	X	-	X	X	KE-05-1355 X
Sodium chloride	231-598-3	-		X	X	-	X	X	X	X	KE-31387 X
Glycerin	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