

Revision Date 2012-11-14

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

Product Name Stellar Competent Cells

Product Code ST0213

**Identified uses** For research use only. Not for use in diagnostic procedures.

Supplier USA:

Clontech Laboratories, Inc. A Takara Bio Company 1290 Terra Bella Avenue Mountain View, CA 94043

Phone: 800.662.2566/888.251.6618

Web: www.clontech.com

Emergency telephone In case of emergency, call PERS (Professional Emergency Resource Services)

1-800-633-8253 (US) or 801-629-0667 (international).

## 2. HAZARDS IDENTIFICATION

# **Emergency Overview**

May cause adverse kidney effects

Appearance Physical State Odor
Slurry Liquid Unpleasant

**Potential Health Effects** 

Principle Routes of Exposure Inhalation, Skin contact, Eye contact, Ingestion.

**Acute toxicity** 

Eyes No known effect based on information supplied.

Skin No known effect based on information supplied.

**Inhalation** May be harmful if inhaled.

**Ingestion** No known effect based on information supplied.

**Chronic Effects** 

**Chronic toxicity** No known effect based on information supplied.

**Aggravated Medical Conditions** Preexisting eye disorders, Kidney disorders, Skin disorders, Respiratory disorders.

**Environmental hazard** See Section 12 for additional Ecological Information.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Hazardous ingredients**

Chemical Name	CAS-No	Weight %
Trade Secret	-	5 - 10
Trade Secret	-	0.1 - 1

## 4. FIRST AID MEASURES

General advice In the case of accident or if you feel unwell, seek medical advice immediately (show the

label where possible).

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes.

**Inhalation** Move to fresh air.

Ingestion Never give anything by mouth to an unconscious person. If symptoms persist, call a

physician. Not an expected route of exposure.

**Notes to physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

surrounding environment.

Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus and protective suit.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** For personal protection see section 8.

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**Soak up with inert absorbent material.

## 7. HANDLING AND STORAGE

Advice on safe handling Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial

hygiene and safety practice.

Technical measures/Storage conditions

Keep in properly labeled containers.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Exposure Guidelines**

Chemical Name ACGIH TLV OSHA PEL NIOSH IDLH
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Glycerol	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m³ TWA: 5 mg/m³	
56-81-5	(vacated) TWA: 10 mg/m³ (vacated)		
		TWA: 5 mg/m <sup>3</sup>	
Manganese(II) chloride	TWA: 0.2 mg/m <sup>3</sup>	(vacated) Ceiling: 5 mg/m <sup>3</sup>	IDLH: 500 mg/m <sup>3</sup>
tetrahydrate		Ceiling: 5 mg/m <sup>3</sup>	TWA: 1 mg/m³
13446-34-9			STEL: 3 mg/m <sup>3</sup>

NIOSH IDLH: Immediately Dangerous to Life or Health

# **Biological standards**

## **Occupational Exposure Controls**

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment** 

**General Information** These recommendations apply to the product as supplied.

**Respiratory protection** None required under normal usage.

**Eye/Face Protection** Safety glasses with side-shields

**Skin and body protection** Wear suitable protective clothing. Protective shoes or boots.

Hand Protection Latex gloves

Hygiene measures When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene

and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceSlurryOdorUnpleasantPhysical StateLiquid

**pH** No information available

Water Solubility Not applicable

Boiling point/boiling range (°C)
Melting point (°C)
Flash point (°C)
No information available
No information available

# 10. STABILITY AND REACTIVITY

Stability Stable.

**Incompatible products** None known based on information supplied.

Conditions to Avoid None known based on information supplied.

 $\label{thm:local_products} \textbf{Hazardous Decomposition Products} \ \textbf{N} one \ under \ normal \ use \ conditions.$ 

Hazardous Polymerization Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

## 11. TOXICOLOGICAL INFORMATION

## **Product Information**

Acute toxicity

LD50 Oral: 62160 mg/kg (rat) estimated No information available

LC50 Inhalation:

DustNo information availableVaporNo information available

	Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Γ	Trade Secret	12600 mg/kg (Rat)	21900 mg/kg (Rat)	
	Trade Secret	1484 mg/kg (Rat) 250 mg/kg ( Rat)		

## **Chronic toxicity**

Target Organ Effects Respiratory system, Eyes, Kidney, Skin.

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to algae	Toxicity	to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Trade Secret		LC50 51 - Oncorhynchus	· 57 mL/L s mykiss 96 h		EC50 > 500 mg/L 24 h
Chemical Name			log Pow		
Trade Secret		•	-1.76		

## 13. DISPOSAL CONSIDERATIONS

## **Waste Disposal Methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

## Contaminated packaging

Dispose of in accordance with local regulations.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Trade Secret	Toxic

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

MEX Not regulated

ICAO Not regulated

ICAO/IATA Not regulated

IMDG/IMO Not regulated

RID Not regulated

ADR/RID Not regulated

ADN Not regulated

## 15. REGULATORY INFORMATION

## International Inventories For research use only

## **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Acute Health HazardNoChronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

#### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

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

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Trade Secret		5 - 10		Group II		
Trade Secret		0.1 - 1				

#### CERCI A

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## **TSCA**

## **U.S. State Regulations**

**Trade Secret** 

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Dimethyl sulfoxide		X			
Glycerol	X	Х	Х		Х

## International Regulations

Mexico - Grade	No information	No information available.			
	Chemical Name	Carcinogen Status	Exposure Limits		
	Trade Secret		Mexico: TWA 10 mg/m <sup>3</sup>		

Mexico: TWA 0.2 mg/m<sup>3</sup>

#### Canada

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.

**WHMIS Hazard Class** 

Non-controlled.

#### 16. OTHER INFORMATION

#### **Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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