

# **Material Safety Data Sheet**

Revision Date: 03-Feb-2012

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

Product code HUXUC-01001

Product name Human Umbilical Cord Mesenchymal Stem Cells

Company/Undertaking Identification

Cyagen Biosciences Inc. 574 East Weddell Dr, Suite 6 Sunnyvale, CA 94089, U.S.A.

Tel: 800-921-8931

For research use only

# 2. COMPOSITION/IN FORMATION ON INGREDIENTS

# Hazardous/Non-hazardous Components

Chemical Name	CAS-No	Weight %
dimethylsulfoxide	67-68-5	10

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

# 3. HAZARDS IDENTIFICATION

## **Emergency Overview**

Components of the product may be absorbed into the body through the skin

**Form** 

Liquid

# 3. HAZARDS IDENTIFICATION

Principle Routes of Exposure/ Potential Health effects

**Eyes** Mild eye irritation.

Skin moderate skin irritation. Components of the product may be absorbed into the body

through the skin.

InhalationNo information availableIngestionMay be harmful if swallowed.

**Specific effects** 

Carcinogenic effectsNo information availableMutagenic effectsNo information availableReproductive toxicityNo information availableSensitizationNo information available

<u>Target Organ Effects</u> No information available

#### **HMIS**

Health	1
Flammability	0
Reactivity	0

## 4. FIRST AID MEASURES

**Skin contact** Wash off immediately with plenty of water

**Eye contact**Rinse thoroughly with plenty of water, also under the eyelids. **Ingestion**Rinse thoroughly with plenty of water, also under the eyelids.
Never give anything by mouth to an unconscious person

InhalationMove to fresh airNotes to physicianTreat symptomatically.

# 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Special protective equipment

for firefighters

Dry chemical

Wear self-contained breathing apparatus and protective suit

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Methods for cleaning up

Use personal protective equipment
Soak up with inert absorbent material

# 7. HANDLING AND STORAGE

**Handling**Storage
No special handling advice required Keep in properly labelled containers

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

# Occupational exposure controls

## **Exposure limits**

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
dimethylsulfoxide	-	-	-	-

Engineering measures Ensure adequate ventilation, especially in confined areas

## Personal protective equipment

Respiratory protection Hand protection

In case of insufficient ventilation wear suitable respiratory equipment Impervious butyl rubber gloves. Nitrile gloves are not recommended. Some

brands of Nitrile gloves have breakthrough times of five minutes.

Eve protection

Safety glasses with side-shields

Skin and body protection Hygiene measures

Light weight protective clothing.

Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure** 

Prevent product from entering drains.

controls

# 9. PHYSICAL AND CHEMICAL PROPERTIES

## **General Information**

**Form** Liquid

## Important Health Safety and Environmental Information

Boiling point/range Melting point/range °C No data available

°F No data available °F No data available

Flash point

°C No data available °C No data available °C No data available

°F No data available °F No data available

**Autoignition temperature** Oxidizing properties

No information available

Water solubility

soluble

# 10. STABILITY AND REACTIVITY

Stability

Stable

Materials to avoid Hazardous decomposition No information available

products

No information available

**Polymerization** 

Hazardous polymerisation does not occur.

# 11. TOXICOLOGICAL INFORMATION

## **Acute toxicity**

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal, rattrab bit)	LD50 (inhalation, rat/mouse)
dimethylsulfoxide	14500 mg/kg (Rat)	No data available	No data available

## Principle Routes of Exposure/

# **Potential Health effects**

Eye Mild eye irritation.

Skin moderate skin irritation. Components of the product may be absorbed into the body

through the skin.

Inhalation No information available Ingestion May be harmful if swallowed.

## Specific effects

Carcinogenic effects Mutagenic effects Reproductive toxicity Sensitization No information available No information available No information available No information available

**Target Orcia Effects** 

No information available

# 12. ECOLOGICAL INFORMATION

Ecotoxicity effectsNo information available.MobilityNo information available.BiodegradationInherently biodegradable.BioaccumulationDoes not bioaccumulate

# 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations

# 14. TRANSPORT INFORMATION

## <u>IATA</u>

Proper shipping name Hazard Class

Subsidiary Class
Packing group
UN-No

Not classified as dangerous in the meaning of transport regulations

No information available No information available No information available No information available

# 15. REGULATORY INFORMATION

## **International Inventories**

Chemical Name	TSCA	PICCS	ENCS	DSL	NDSL	AICS
dimethylsulfoxide	Listed	Listed	Listed	Listed	-	Listed

## **U.S. Federal Reciulations**

# **SARA 313**

This product is not regulated by SARA.

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

This product does not contains HAPs.

## **U.S. State Reaulations**

Chemical Name	Massachusefts-RTK	New Jersey - RTK	Pennsylvania - RTK	Illinois - RTK	Rhode Island - RTK
dimethylsulfoxide	-	-	-	-	-

#### California Proposition 65

This product does not contain chemicals listed under Proposition 65

## WHMIS hazard class:

D2B Toxic materials

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the

# **16. OTHER INFORMATION**

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

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 be present unknown hazards and should be used with caution. Since Cyagen Biosciences Inc. 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, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTCULAR PURPOSE.

**End of Safety Data Sheet**