

## **Material Safety Data Sheet**

Revision Date: 03-Feb-2012

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

Product code HUXUB-01001

Product name Human Umbilical Cord Blood 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.

Inhalation No information available Ingestion May be harmful if swallowed.

Specific effects

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

**Target Organ Effects** No information available

#### **HMIS**

Health	1
Flammability	0
Reactivity	0

## 4. FIRST AID MEASURES

Skin contact Wash off immediately with plenty of water

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

Inhalation Move to fresh air Notes to physician Treat 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 Use personal protective equipment Methods for cleaning up Soak up with inert absorbent material

## 7. HANDLING AND STORAGE

Handling No special handling advice required Storage 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 Light weight protective clothing.

Hygiene measures

**Environmental exposure** 

controls

Handle in accordance with good industrial hygiene and safety practice

Prevent product from entering drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **General Information**

**Form** Liquid

#### Important Health Safety and Environmental Information

Boiling point/range Melting point/range

Flash point **Autoignition temperature** 

Oxidizing properties Water solubility

°C No data available °C No data available

°C No data available °C No data available

No information available

soluble

°F No data available °F No data available

°F No data available °F No data available

## 10. STABILITY AND REACTIVITY

Stability Stable

No information available Materials to avoid Hazardous decomposition No information available

products

**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.

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**End of Safety Data Sheet**