

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

**Product code** RAWMD-01001  
**Product name** Wistar Rat Adipose-derived 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/INFORMATION ON INGREDIENTS****Hazardous/Non-hazardous Components**

<b>Chemical Name</b>	<b>CAS-No</b>	<b>Weight %</b>
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

<u>Principle Routes of Exposure/</u>	<u>Potential Health effects</u>
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

<b>Carcinogenic effects</b>	No information available
<b>Mutagenic effects</b>	No information available
<b>Reproductive toxicity</b>	No information available
<b>Sensitization</b>	No information available

Target Organ Effects No information available

#### HMS

Health	1
Flammability	0
Reactivity	0

### 4. FIRST AID MEASURES

<b>Skin contact</b>	Wash off immediately with plenty of water
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person
<b>Inhalation</b>	Move to fresh air
<b>Notes to physician</b>	Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Dry chemical
<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus and protective suit

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Use personal protective equipment
<b>Methods for cleaning up</b>	Soak up with inert absorbent material.

### 7. HANDLING AND STORAGE

<b>Handling</b>	No special handling advice required
<b>Storage</b>	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**

In case of insufficient ventilation wear suitable respiratory equipment

**Hand protection**

Impervious butyl rubber gloves. Nitrile gloves are not recommended. Some brands of Nitrile gloves have breakthrough times of five minutes. Nitrile gloves are not recommended. Some brands of Nitrile gloves have breakthrough times of five minutes.

**Eye protection**

Safety glasses with side-shields

**Skin and body protection**

Light weight protective clothing.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls**

Prevent product from entering drains.

**9. PHYSICAL AND CHEMICAL PROPERTIES****General Information****Form**

Liquid

**Important Health Safety and Environmental Information****Boiling point/range**

°C No data available

°F No data available

**Melting point/range**

°C No data available

°F No data available

**Flash point**

°C No data available

°F No data available

**Autoignition temperature**

°C No data available

°F No data available

**Oxidizing properties**

No information available

**Water solubility**

soluble

**10. STABILITY AND REACTIVITY****Stability**

Stable.

**Materials to avoid**

No information available

**Hazardous decomposition products**

No information available

**Polymerization**

Hazardous polymerisation does not occur.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	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**

No information available

**Mutagenic effects**

No information available

**Reproductive toxicity**

No information available

**Sensitization**

No information available

**Target Orcia Effects**

No information available

**12. ECOLOGICAL INFORMATION****Ecotoxicity effects**

No information available.

**Mobility**

No information available.

**Biodegradation**

Inherently biodegradable.

**Bioaccumulation**

Does not bioaccumulate.

**13. DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations

**14. TRANSPORT INFORMATION****IATA****Proper shipping name**

Not classified as dangerous in the meaning of transport regulations

**Hazard Class**

No information available

**Subsidiary Class**

No information available

**Packing group**

No information available

**UN-No**

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 Recriptions****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 CPR

## 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**