

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

**Product code** RAFMX-01201  
**Product name** Fischer 344 Rat Mesenchymal Stem Cells with RFP

## 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

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

#### HMS

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	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	Dry chemical
Special protective equipment for firefighters	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**

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)	LC50 (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 CFR 61)**

This product does not contain HAPs.

**U.S. State Regulations**

Chemical Name	Massachusetts - 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.

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 PARTICULAR PURPOSE.

**End of Safety Data Sheet**