

Material Safety Data Sheet

Revision Date: 03-Feb-2012

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

Product code	RASMX-01201
Product name	Sprague-Dawley 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/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. moderate skin irritation. Components of the product may be absorbed into the body
Skin	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

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

Target Organ Effects

No information available

<u>HMIS</u>

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 mediaDry chemicalSpecial protective equipmentWear self-contained breathing apparatus and protective suitfor firefighters

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	-	-	-	_

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. Nitrile gloves are not recomended. Some brands of Nitrile gloves have breakthrough times of five minutes.
Eye protection Skin and body protection Hygiene measures Environmental exposure controls	Safety glasses with side-shields Light weight protective clothing. Handle in accordance with good industrial hygiene and safety practice Prevent product from entering drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form

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 Water solubility	No information available soluble	

Liquid

10. STABILITY AND REACTIVITY

Stability Materials to avoid Hazardous decomposition products Polymerization

Stable. No information available No information available

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 Skin	Mild eye irritation. moderate skin irritation. Components of the product may be absorbed into the body
Inhalation Ingestion	through the skin. No information available May be harmful if swallowed.
Specific effects Carcinogenic effects Mutagenic effects Reproductive toxicity	No information available No information available No information available

Sensitization

No information available

Target Orcia Effects

No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity effects Mobility Biodegradation Bioaccumulation No information available. No information available. Inherently biodegradable. Does not bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations

14. TRANSPORT INFORMATION

<u>IATA</u>

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 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 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