

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

**Product code** MSCS10  
**Product name** Mouse (CD-1) Cryopreserved Hepatocytes, Male

### Company/Undertaking Identification

INVITROGEN CORPORATON  
 5791 VAN ALLEN WAY  
 PO BOX 6482  
 CARLSBAD, CA 92008  
 760-603-7200

INVITROGEN CORPORATION  
 5250 MAINWAY DRIVE  
 BURLINGTON, ONT  
 CANADA L7L 6A4  
 800-263-6236

GIBCO PRODUCTS  
 INVITROGEN CORPORATION  
 3175 STALEY ROAD P.O. BOX 68  
 GRAND ISLAND, NY 14072  
 716-774-6700

**24 hour Emergency Response (Transport):** 866-536-0631  
 301-431-8585  
 Outside of the U.S. ++1-301-431-8585

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous/Non-hazardous Components

Chemical Name	CAS-No	Weight %
dimethylsulfoxide	67-68-5	7-13

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

## 3. HAZARDS IDENTIFICATION

### 3. HAZARDS IDENTIFICATION

#### Emergency Overview

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

**Form**  
Liquid

#### Principle Routes of Exposure/ Potential Health effects

<b>Eyes</b>	Mild eye irritation.
<b>Skin</b>	moderate skin irritation. Components of the product may be absorbed into the body through the skin.
<b>Inhalation</b>	No information available
<b>Ingestion</b>	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

#### HMIS

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

<b>Respiratory protection</b>	In case of insufficient ventilation wear suitable respiratory equipment
<b>Hand protection</b>	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.
<b>Eye protection</b>	Safety glasses with side-shields
<b>Skin and body protection</b>	Lightweight protective clothing.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice
<b>Environmental exposure controls</b>	Prevent product from entering drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

**Form** Liquid

### Important Health Safety and Environmental Information

<b>Boiling point/range</b>	°C No data available	°F No data available
<b>Melting point/range</b>	°C No data available	°F No data available
<b>Flash point</b>	°C No data available	°F No data available
<b>Autoignition temperature</b>	°C No data available	°F No data available
<b>Oxidizing properties</b>	No information available	
<b>Water solubility</b>	soluble	

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable.
<b>Materials to avoid</b>	No information available
<b>Hazardous decomposition products</b>	No information available
<b>Polymerization</b>	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

**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

**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 Regulations**

**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.

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**End of Safety Data Sheet**