

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

Product code MUBES-01001
Product name C57BL/6 Mouse Embryonic 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**

| 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) | 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 Orgia 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 Reциulations**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