

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

Product code Various
Product name Miscellaneous cell culture lines

Contact Manufacturer

GeneCopoeia, Inc.
9620 Medical Center Drive, Suite 101
Rockville, MD 20850
USA

Phone: 301-762-0888

Fax: 301-762-3888

2. COMPOSITION/INFORMATION ON INGREDIENTS

Miscellaneous cell culture lines

Frozen cells contain 5%-10% (v/v) of Dimethyl sulfoxide.

The product(s) do not contain any hazardous materials (OSHA 29CFR 1910.1200).

3. HAZARDS IDENTIFICATION

GHS – N/A

Signal Word

N/A

Health Hazards

Biosafety Level 1: Use Biosafety Level 1 containment procedures. This product is not known to cause disease in healthy adult humans. This product has not been screened for Hepatitis B, human immunodeficiency viruses or other adventitious agents. Universal Precautions according to 29 CFR 1910.1030 should be followed at all times when handling this product.

Principle Routes of Exposure

Potential Health Effects

Eyes	Data not available.
Skin	Data not available.
Inhalation	Data not available.
Ingestion	Data not available.

4. FIRST AID MEASURES

Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air. Call a physician or poison control center immediately.
Notes to physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.
Special hazards arising from the substance or mixture	Carbon oxides

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use personal protection equipment. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Methods for cleaning up	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system. See Section 12 for more information

7. HANDLING AND STORAGE

Handling	Always wear recommended Personal Protective Equipment. Avoid contact with skin, eyes or clothing. Remove all sources of ignition
Storage	Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Protect from sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure limits</u>	No exposure limits for this material have been established by ACGIH, NIOSH, or OSHA. There are no Vacated OSHA PEL for this material.
Engineering measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday
Personal protective equipment	Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.
Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment
Respirator Recommendations, National Institute of Occupational Safety and Health, U.S.	<p>Up to 50 ppm</p> <p>(APF = 10) Any air-purifying half-mask respirator with organic vapor cartridge(s) in combination with an N95, R95, or P95 filter. The following filters may also be used: N99, R99, P99, N100, R100, P100.</p> <p>(APF = 10) Any supplied-air respirator</p> <p>Up to 125 ppm:</p> <p>(APF = 25) Any supplied-air respirator operated in a continuous-flow mode</p> <p>(APF = 25) Any powered air-purifying respirator with an organic vapor cartridge in combination with a high-efficiency particulate filter.</p> <p>Up to 250 ppm:</p> <p>(APF = 50) Any air-purifying full-facepiece respirator equipped with organic vapor cartridge(s) in combination with an N100, R100, or P100 filter.</p> <p>(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister having an N100, R100, or P100 filter.</p> <p>(APF = 50) Any powered, air-purifying respirator with a tight-fitting facepiece and organic vapor cartridge(s) in combination with a high-efficiency particulate filter</p> <p>(APF = 50) Any self-contained breathing apparatus with a full facepiece</p> <p>(APF = 50) Any supplied-air respirator with a full facepiece</p> <p>Emergency or planned entry into unknown concentrations or IDLH conditions:</p> <p>(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode</p> <p>(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus</p> <p>Escape:</p>

	(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister having an N100, R100, or P100 filter. /Any appropriate escape-type, self-contained breathing apparatus.filter.
Hand protection	Impervious gloves. S24 - Avoid contact with skin. S36 – Wear suitable protective clothing.
Eye protection	Tight sealing safety goggles.
Skin and body protection	Impervious clothing.
Hygeine measures	Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin, eyes or clothing. 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, frozen	
Appearance		
Odor	No information available	
Boiling point/range	No data available	No data available
Melting point/range	No data available	No data available
Flash point	No data available	No data available
Autoignition temperature	No data available	No data available
Oxidizing properties	No information available	
Water solubility	Soluble	

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions
Materials to avoid	No information available
Hazardous decomposition Products	No data available
Polymerization	None

11. TOXICOLOGICAL INFORMATION

Acute Toxicity No information available

Potential Health Effects

Eyes	No information available
Skin	No information available
Inhalation	No information available
Ingestion	No information available
Carcinogenic effects	No information available.
Mutagenic effects	No information available
Reproductive toxicity	No information available
Sensitization	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No information available.

13. DISPOSAL CONSIDERATIONS

Hazardous waste generators are required to determine if a discarded chemical is classified as a hazardous waste according to 40 CFR Part 261.3. In addition waste generators must consult about and comply with all state and local regulations to ensure compliance.

14. TRANSPORT INFORMATION

Not considered dangerous goods by either land (ADR/RID), inland waterway (ADN), sea (IMDG), or air ((ICAQ-TP / IATA-DGR). Not a DOT controlled material (USA).

15. REGULATORY INFORMATION

UNITED STATES:

TSCA:

This product is solely for research and development purposes only and may not be used, processed or distributed for a commercial purpose. It may only be handled by technically qualified individuals.

Prop 65 Listed Chemicals: No Prop 65 Chemicals.

No 313 Chemicals

CANADA:

DSL/NDSL: Not determined.

COMPONENT ETHANOL

WHMIS Classification D2B

EUROPEAN UNION:

PRODUCT RISK PHRASES: None assigned.

PRODUCT SAFETY PHRASES: Not applicable.

PRODUCT CLASSIFICATION: Not classified

16. OTHER INFORMATION

Abbreviations

N/A - Data is not applicable or not available

SARA - Superfund and Reauthorization Act

HMIS - Hazard Material Information System

WHMIS - Workplace Hazard Materials Information System

NTP - National Toxicology Program

OSHA - Occupational Health and Safety Administration

IARC - International Agency for Research on Cancer

PROP 65 - California Safe Drinking Water and Toxic Enforcement Act of 1986

EINECS - European Inventory of Existing Commercial Chemical Substances

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 Invitrogen Corporation 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