

SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY INFORMATION

Product name: Various Cell Cultures at Biosafety Level 2

Contact:

Elixirgen Scientific, Inc.
855 N. Wolfe St., Suite 631
Baltimore, MD 21205
Phone: +1 443-869-5420
<https://elixirgensci.com>

SECTION 2: HAZARD IDENTIFICATION

For Biosafety Level 2 Cell Cultures

Handle as a potentially biohazardous material under at least Biosafety Level 2 containment. These cell lines are associated with human disease, hazards include: percutaneous injury, ingestion, mucous membrane exposure (U.S. Government Publication **Biosafety in Microbiological and Biomedical Laboratories**). These cells have **NOT** been screened for Hepatitis B, human immunodeficiency viruses or other adventitious agents, unless otherwise reported on the Certificate of Analysis. Regardless of results reported on the Certificate of Analysis Universal Precautions according to 29 CFR 1910.1030 should be followed at all times when manipulating these cell lines.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS SUBSTANCE

Frozen Cultures may also contain a 5% - 20% solution of Dimethylsulfoxide as a cryoprotectant and less than 10% of inorganic salts.

SECTION 4: FIRST AID MEASURES

Description of necessary measures.

Inhalation: If person is unconscious, seek emergency medical attentions, if person is conscious, remove to fresh air and call a physician.

Skin contact: Wash off with soap and plenty of water. Remove contaminated clothes. Consult a physician if area becomes inflamed.

Eye contact: Flush eyes with copious amounts of water for at least 15 minutes with eyelids separated. Consult a physician immediately.

Ingestion; If person is unconscious, seek emergency medical attention; never give anything by mouth to an unconscious person. If the person is conscious, wash mouth out with copious amounts of water and call a physician then administer three cupfuls of water. Do not induce vomiting unless directed to do so by a physician.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Fire-extinguishing powder, carbon dioxide, foam (alcohol foam), water.

Specific hazards arising from the substance or mixture:

May give off irritating or toxic fumes (or gasses) in fires. During firefighting, wear proper protective equipment to avoid smoke inhalation.

Special protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus and protective clothing to prevent inhalation, ingestion, skin and eye contact.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

If indoors, ventilate adequately until disposal is complete. Rope off location around area of release to prevent access by unauthorized personnel. Wear laboratory coat, gloves and eye protection. Avoid all contact.

Methods and materials for containment and cleaning up:

Patient/Victim: Wash with soap and water. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Do not take clothing home.

Equipment/Environment: Allow aerosols to settle; wearing protective clothing, gently cover spill with paper towel and apply suitable disinfectants such as chlorine bleach or 70% ethyl or isopropyl alcohol. Start at perimeter and work towards the center; allow sufficient contact time before clean up (30 minutes).

SECTION 7: HANDLING AND STORAGE

Follow Universal Precautions and established laboratory procedures when handling material. Handle as a potentially biohazardous material under Biosafety Level 1 or 2 containment. Cell lines.

Special Requirements:

Follow all appropriate safety procedures when handling all cell lines, especially those derived from human or other primate material. Detailed discussions of laboratory safety procedures are provided in Laboratory Safety: Principles and Practice (Fleming, et al., 1995), the ATCC manual on quality control (Hay, et al., 1992), the Journal of Tissue Culture Methods (Caputo, 1988), and in the U.S. Government Publication, Biosafety in Microbiological and Biomedical Laboratories (CDC, 1999). This publication is available in its entirety in the Centers for Disease Control Office of Health and Safety's web site at <https://www.cdc.gov/biosafety/>.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Use Personal Protective Equipment: Including Eye Protection, Chemical RESistant Gloves, and appropriate clothing to prevent skin exposure. In addition, a Respiratory protection program that complies with OSHA 29 CFT 1910.134 and ANSI Z88.2 requirements or European Standard EN I49 must be followed whenever workplace conditions warrant respirator use.

Appropriate engineering controls: The use and storage of this material requires the user to maintain and make available appropriate eyewash and safety shower facilities. Use fume hood or other appropriate ventilation method to keep airborne concentrations as low as possible.

Exposure Limits: No exposure limits for this material have been established by ACGIH, NIOSH, or OSHA.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid.
Odor:	None.
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash point:	No data available.
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower flammability or explosive limits:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	No data available.
Solubility(ies):	No data available.
Partition coefficient: n-octanol/water:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Stable under recommended transport and storage conditions.
Chemical stability:	Stable under recommended storage conditions.
Conditions to avoid:	No information available.
Hazardous decomposition products:	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity: No data available.

Skin irritant effect: No data available. Avoid skin contact.

Eye irritant effect: No data available. Avoid eye contact

Sensitization: No data available.

Mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: None.

Additional toxicological information: RTECS: Not available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: No data available.

Ecotoxicity: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: None.

SECTION 13: DISPOSAL INFORMATION

Disposal methods: Dispose of waste in accordance to applicable national, regional, or local regulations.

SECTION 14: TRANSPORT INFORMATION

Cell cultures must be packaged and shipped in compliance with the Codes of Federal Regulations (49 CFR-Transportation and 45 CFR part 46- Protection of human subjects) and International Air Transport Association (IATA) Dangerous Goods Regulations.

Biological Substance, Category B, UN3373.

SECTION 15: REGULATORY INFORMATION**US Federal Regulations:****SARA 313 Components**

This material is not regulated by SARA CAA, Section 112, Hazardous Air Pollutants (HAPs) (40 CFR 61): This product does not contain HAPs.

US State regulations:

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: OTHER INFORMATION

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