# SAFETY DATA SHEET Human Cell Culture – Frozen or Fresh

## SECTION 1: IDENTIFICATION

**PRODUCT NAME:**  Cell Culture – Frozen or Fresh (multiple human sources)

**MANUFACTURER:**  Asterand

**ADDRESS:**  440 Burroughs, Ste 501
              Detroit, MI 48202

**COMPANY PHONE:**  313-263-0960

**EMERGENCY CONTACT:**  1-866-384-7783

**RECOMMENDED USE:**  Research use only

**RESTRICTIONS ON USE:**  May not be used in human subjects (in vivo)

## SECTION 2: HAZARDS IDENTIFICATION

**HAZARDOUS INGREDIENTS:**  Cell culture suspension is not hazardous as defined by OSHA 1910.1200. Cell cultures in suspension (live) may be considered potential biohazards. Frozen cell culture suspension may contain Dimethyl sulfoxide (DMSO).

**HANDLING:**  Use good laboratory practices (Universal Precautions) when manipulating cell culture suspensions. Handle material as potentially biohazardous using Biosafety Level 1 or 2 procedures.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**INGREDIENT:**  Cell culture of Human Origin growing or suspended in either:

1) liquid cell culture medium (a mixture of components that may include, but is not limited to: inorganic salts, vitamins, amino acids, carbohydrates and other nutrients dissolved in sterile filter water) supplemented with either fetal bovine serum or as serum-free containing bovine serum albumin.

or

2) frozen in cryoprotectant medium containing complete cell culture medium with fetal bovine serum (as described in #1) and 5-10% DMSO.

or

3) frozen in cryoprotectant medium containing fetal bovine serum with 5-10% DMSO.

or

4) frozen in cryoprotectant medium containing serum, protein and animal origin-free cryoprotectant with 5-10% DMSO (e.g. CryoStor® CS5 or CS10).

## SECTION 4: FIRST AID MEASURES

**EYES:**  Flush with water or eyewash saline for at least 15 minutes. Consult a physician.

**SKIN:**  Wash affected area with soap and water, and rinse with water. Remove any contaminated clothing

**INGESTION:**  Consult a physician.

## SECTION 5: FIRE-FIGHTING MEASURES

**EXTINGUISHING:**  No special fire fighting measures required; water, alcohol-resistant foam, carbon dioxide or dry chemical spray are all suitable extinguishing agents. Wear full protective gear to prevent contact with skin and eyes.
SECTION 6: ACCIDENTAL RELEASE MEASURES

PROTECTIVE EQUIPMENT: Use Personal Protective Equipment listed in Section 8.

CONTAINMENT: Cover spill with absorbent material.

CLEANUP: Decontaminate area thoroughly with suitable disinfectant (10% chlorine bleach or 70% ethyl or isopropyl alcohol).

SECTION 7: HANDLING AND STORAGE

HANDLING: Handle as potential biohazard material under at least Biosafety Level 1 or 2 containment. Use Good Laboratory Practices for potentially infectious material and wash hands after working with the material. Cell cultures may fall under the regulations of 29 CFR 1910.1030 Bloodborne Pathogens.

STORAGE: Store at < -20°C (frozen, 1 to 7 days), < -80°C (frozen, greater than 7 days), or 37°C (fresh).

INCOMPATIBILITIES: Strong oxidizing agents and alkalai metals (DMSO).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTION: Safety Glasses, Latex or Vinyl Gloves, and Laboratory Coat.

EXPOSURE CONTROL: Use engineered controls (biosafe ty cabinet, shields) to limit airborne exposure.

EXPOSURE LIMITS: No exposure limits for this material have been established.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Fresh: Slight pink to red
Frozen: Slightly opaque, white to light yellow

ODOR: No detectable odor

PHYSICAL STATE: At room temperature this product is in a liquid state.

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable at < -80°C (frozen, greater than 7 days) or ambient to 37°C (fresh).

REACTIVITY: No reactivity data available.

SECTION 11: TOXICOLOGICAL INFORMATION

EXPOSURE ROUTES: Dermal, inhalation (aerosol). DMSO easily penetrates the skin and may enhance the rate of skin absorption of skin-permeable substances.

ACUTE EFFECTS: Short term effects may include eye and skin irritation.

CHRONIC EFFECTS: Repeated exposure to DMSO may result in allergic sensitization and dermatitis.

CARCINOGENICITY: No carcinogenic properties have been identified.

SECTION 12: ECOLOGICAL INFORMATION

No harmful effects have been documented.
SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Observe all local environmental regulations when disposing of potentially hazardous biological products.

SECTION 14: TRANSPORT INFORMATION

CDG UK: Non-hazardous for road freight
DOT US: Non-hazardous for road freight
IATA: Non-hazardous for air freight

Cell cultures are packaged and shipped in compliance with International Air Transport Association (IATA) and International Civil Aviation Organization (ICAO) Dangerous Goods Regulations.

SECTION 15: REGULATORY INFORMATION

US Federal Regulations: TSCA Inventory List: Not listed
CERCLA: Not Available
SARA Title III: Not Available

US State Regulations: California Proposition 65: Not listed

SECTION 16: OTHER INFORMATION

Safety Data Sheet revised: 06 April 2017

Disclaimer: Safety data presented in this document is based on information currently available and is believed to be accurate. All materials and mixtures may present unknown hazards and should be used with caution. We cannot guarantee the information and we assume no liability resulting from its use. This information should be used in conjunction with other resources to determine suitability for the user’s particular purposes.