Safety Data Sheet

Revision: 01
Date: July 4, 2020

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

1. **Product Identifiers**

Product Name	Neo-Natal Human Dermal Fibroblasts
Catalog No	5060/TC1011/TC1010
Brand Name	Not applicable
CAS No.	None

2. **Relevant identified uses of the substance or mixture and uses advised against**

Identified Uses	Cell culture – for Research and Development Uses

3. **Details of the supplier of the safety data sheet**

Company	Advanced BioMatrix, Inc. 5930 Sea Lion Place Carlsbad, CA 92010 USA Phone: 1-800-883-8220 1-760-929-0755 outside USA
Fax	1-510-217-3452

4. **Emergency telephone number**

Emergency Phone No.	1-800-883-8220

SECTION 2 – HAZARDS IDENTIFICATION

1. **Classification of the substance or mixture**

   Contains non-hazardous quantities of cell culture reagents
   The cell culture, being live, should be considered a potential biohazard.
   Cells are frozen in an aqueous biological salt- and nutrient- containing medium, and dimethyl sulfoxide (DMSO).
   Contains animal and/or human proteins. Allergy or hypersensitivity to bovine serum and other animal proteins.
   Personnel working with these cell cultures must be properly trained in cell culture and safe handling techniques.

2. **GHS Label elements, including precautionary statements**

   The raw material source for this product is human foreskin. The donor and donor's mother were tested for the presence of infectious viruses (HBsAg, Anti-HB Core, HIV-1Ag, Anti-HIV-1 & 2, Anti-HCV, Anti HTLV I/II, RPR, FTA-ABS, NAT HIV-I, NAT HCV, Anti-CMV-IgM, Anti-EBV-IgM) and found non-reactive. However, no known test method can

offer completed assurance of safety. Appropriate safety and personal protective practices should be followed when handling this product.

3. **Hazards not otherwise classified (HNOC) or not covered by GHS** – None

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

1. **Substances**

CAS No.	Not available
EC No.	Not available

No ingredients hazardous according to OSHA criteria.
No components need to be disclosed according to the applicable regulations.

SECTION 4 – FIRST AID MEASURES

1. **Eye Contact**
   Flush eyes with water as a precaution. Rinse immediately with water for 15 minutes, occasionally lifting the upper and lower eyelids.
   Consult a doctor/medical services.
2. **Skin Contact**
   Wash off with soap and plenty of water.
   Remove clothing before washing.
3. **Inhalation**
   If breathed in, move person into fresh air.
4. **Ingestion**
   Never give anything by mouth to an unconscious person. Rinse mouth with water.
5. **Most important symptoms and effects, both acute and delayed**
   The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
6. **Indication of any immediate medical attention and special treatment needed**
   Consult a doctor/medical services

SECTION 5 – FIREFIGHTING MEASURES

1. **Extinguishing media**
   Use water spray, alcohol-resistant roam, dry chemical or carbon dioxide.
2. **Special hazards arising from the substance or mixture**
   Nature of decomposition of products not known.
3. **Advice for firefighters**
   Wear self-contained breathing apparatus for firefight if necessary.
4. **Further Information**
   No data available

SECTION 6 – ACCIDENTAL RELEASE MEASURES

1. **Personal precautions, protective equipment and emergency procedures**
   Avoid breath vapors, mist or gas.
   For personal protection see section 8.
2. **Environmental precautions**
   No special environmental precautions required.
3. **Methods and materials for containment and cleaning up**
   Take up liquid spill into absorbent material. Keep in suitable, closed containers for disposal.
4. **Reference to other sections**
   For disposal see section 13.

SECTION 7 – HANDLING AND STORAGE

1. **Precautions for safe handling**
   If solution is spilled: take up with an absorbent material; if contact is possible, wear glasses as protection. Decontaminate with suitable disinfectants such as household chlorine bleach (dilution 1:10) or 70% IPA.
   For precaution see section 2.2
2. **Conditions for safe storage, including any incompatibilities**
   Recommended storage temperature ,70°C.
   Heat sensitive.
3. **Specific end use(s)**
   CDC-NIH Manual, Biosafety in Microbiological and Biomedical Laboratories (BMBL), 5th edition, 2007.
   ATCC Quality Control Methods for Cell Lines, 2nd edition, 1992; American Type Culture Collection

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

1. **Workplace control parameters**

Chemical/Component	TLV/NIOSH REL	OSHA PEL	CAS No.
DMSO (contained in the freezing media of the cells)	Not Listed	Not Listed	67-68-5

   The product does not contain any substances with occupational exposure limit values.
2. **Exposure controls**

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/Face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of the contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection

Choose body protection in relations to its type, to the concentration and amount of dangerous substances, and to the specific work place. The type of protective equipment must be selected according to the concentration and the amount of the dangerous substance at the specific work place.

Respiratory protection

Area ventilation is generally adequate. Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

No special environmental precautions required.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Form	Liquid translucent, cloudy
Color	Light pink/yellowish
Odor	No data available
Odor threshold	No data available
pH	Neutral
Melting point/freezing point	Similar to water
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability	No data available
Upper/lower flammability	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Water solubility	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	No data available
Chemical stability	Stable under recommend storage conditions
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible material	No data available
Hazardous decomposition products	Other decomposition products - No data available

In the event of fire: see section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity

DMSO	LD_{50} oral, mouse LD_{50} oral, rat LD_{50} skin, rat Draize test, eye, rabbit Draize test, skin, rabbit	:7920 mg/kg :14500 mg/kg :40 gm/kg :100-500 mg/24h Mild :500 mg/24 h Mild
DMSO (contained in the freezing media of the cells)	Not Listed	Not Listed

Inhalation	No data available
Dermal	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP	No components of this product present at levels greater than or equal to 0.1% is identified as known or anticipate carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	No data available
Specific target organ toxicity	
Single exposure	No data available
Repeated exposure	No data available
Aspiration hazard	No data available
Additional information	
RTECS	No data available

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effect	No data available

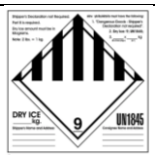
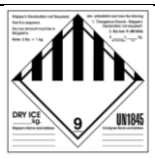
SECTION13 – DISPOSAL CONSIDERATIONS

Product
All the cell culture components must be conserved as hazardous waste. They should be disposed of following local regulations. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Same as above.

SECTION 14 – TRANSPORT INFORMATION

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information

DOT Classification	UN1845	Carbon Dioxide	9	III		No additional remarks
TDG Classification	UN1845	Carbon Dioxide	9	III		No additional remarks

SECTION 15 – REGULATORY INFORMATION

Classification according to diretive 67/548/EEC and 1999/45/EC

Symbol	Risk and Safety Precaution	
 **Xn** – harmful **Xi** – irritant	R22:	Harmful if swallowed
	R36/37/38:	Irritating to eyes, respiratory system and skin
	R42/43:	May cause sensitization by inhalation and skin contact
	R52:	Harmful to aquatic organisms
	R61:	May cause harm to the unborn child
	R68	Possible risks of irreversible effects
 **N**	S23:	Do not breathe aerosols
	S24/25:	Avoid contact with skin and eyes
	S26:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
	S29:	Do not empty into drains
	S35:	This material and its container must be disposed of in a safe way
	S36/37/39:	Wear suitable protective clothing, gloves and eye/face protection
	S45:	In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

SECTION 16 – OTHER INFORMATION

Further information:
Based on: US 29 CFR 1910:1200(g): Canadian Hazardous Product Act, Part II: Directive 911155/EEC et seq.
This product is designed for use by professionals.
The above information is believed to be accurate and represents the information available to date, but Advanced BioMatrix does not purport it to be all-inclusive; this should be used only as a guide.
Refer to the Product insert or Directions for Use for this product for additional details on the proper storage, handling, use, and disposal of the reagents included in this product.
Contact Advanced BioMatrix, Inc. if additional information is required.

Preparation Information:
Advanced BioMatrix, Inc.
1-800-883-8220