

PRODUCT NAME: **NanoCulture Medium M type**

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: **NanoCulture Medium M type**
Recommended Use: Cell culture medium
Product Description: Cell culture medium (basal medium)

MANUFACTURER: **ORGANOGENIX Inc**
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2. HAZARDS IDENTIFICATION


GHS Classification of the mixtures and any national or regional information

Hazards	Hazard elements		
Physical Hazards	Explosives	Not classified	
	Flammable gases	Not classified	
	Flammable aerosols	Not classified	
	Oxidizing gasses	Not classified	
	Gases under pressure	Not classified	
	Flammable liquids	Not classified	
	Flammable solids	Not classified	
	Self-reactive substances and mixtures	Not classified	
	Pyrophoric liquids	Not classified	
	Pyrophoric solids	Not classified	
	Self-heating substances and mixtures	Not classified	
	Substances and mixtures which, in contact with water, emit flammable gases	Not classified	
	Oxidizing liquids	Not classified	
	Oxidizing solids	Not classified	
	Organic peroxides	Not classified	
Corrosive to metals	Not classified		
Health Hazards	Acute toxicity	Oral	Not classified
		Dermal	Not classified
		Inhalation (Gasses)	Not classified
		Inhalation (Vapors)	Not classified
		Inhalation (Dusts and Mists)	Not classified
	Skin corrosion/irritation	Category 2	
	Serious eye damage/eye irritation	Category 2B	
	Respiratory or skin sensitization	Category 1	
	Germ cell mutagenicity	Not classified	
	Carcinogenicity	Not classified	
	Reproductive toxicity	Not classified	
	Specific target organ systemic toxicity-Single exposure	Not classified	
	Target organ	-	
	Specific target organ systemic toxicity-Repeated exposure	Not classified	
Target organ	-		
Aspiration hazard	Not classified		

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GHS label elements

Hazard symbols:

Health Hazard				
				

Signal word: **WARNING**

Hazard statements:

H315	Causes skin irritaion
H320	Causes eye irritation
H335	May cause respiratory irritation
H317	May cause an allergic skin reaction

Precautionary statements:

P302 + P352	IF ON SKIN: Wash with plenty of soap and water
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313	If eye irritation persists: Get medical advice/attention
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
P264	Wash hands thoroughly after handling

HMIS

Health	1
Flammability	0
Reactivity	0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	EINECS No.	Weght %
Streptomycin Sulfate	3810-74-0	-	0.005 – 0.016
Penicillin G, Sodium salt	69-57-8	-	0.001 – 0.011

We recommend handling all chemical with caution.

4. FIRST-AID MEASURES

INHALATION:

Remove exposed person to fresh air; perform artificial respiration if necessary.

EYE CONTACT:

Immediately flush eyes with plenty of water at least 15 min. Call a physician.

SKIN CONTACT:

Immediately wash skin with soap and plenty of water. If skin irritation or allergic skin reaction develops, get medical attention.

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INGESTION:

Contact a poison center and have SDS information available.

NOTE TO PHYSICIAN:

Treatment may vary with condition of victim and specifics of incident.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:

Product does not burn, aqueous solution is not flammable.

SPECIAL FIRE FIGHTING PROCEDURES:

Water should be used to keep fire exposed containers cool and to disperse vapors.

Firefighters should wear self-contained breathing apparatus.

FIRE AND EXPLOSION HAZARDS:

Not applicable.

6. ACCIDENTAL RELEASE MEASURES

LARGE SPILL/SMALL SPILL:

Dike or absorb with inert absorbent material before allowing to dry and transfer to D.O.T. container for disposal. Strictly, avoid draining into any Public water system. Dispose of absorbent and other waste in an appropriate chemical waste container. Wear proper personal protective equipment. Wash thoroughly after handling.

7. HANDLING AND STORAGE

HANDLING: Avoid contact with skin and eyes.

STORAGE: Keep in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

We are not aware of any national exposure limit.

ENGINEERING CONTROLS:

The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.

PERSONAL PROTECTION

RESPIRATORY PROTECTION:

Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use. NIOSH approved respirators as follows:
Any chemical cartridge respirator with VOC and P100 HEPA filter(s).
Any chemical cartridge respirator with a full facepiece VOC and P100 HEPA filter(s).
Any air-purifying respirator with a full facepiece VOC and P100 HEPA filter(s).
For Unknown Concentrations or Immediately Dangerous to Life or Health.
Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.
Any self-contained breathing apparatus with a full facepiece.

SKIN PROTECTION:

Wear impermeable gloves and clothing during activities where there is potential for direct skin contact with chemical.

EYE PROTECTION:

Wear primary eye protection such as splash resistant safety goggles with a

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secondary protection faceshield. Provide an emergency eye wash station and quick drench shower in the immediate work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Value	
Appearance:	Liquid	
Odor:	No information available	
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
Oxidized properties:	No information available	
Water solubility:	Soluble	

10. STABILITY AND REACTIVITY

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID)

Strong acid, strong basic substance and electrolyte solution.

HAZARDOUS DECOMPOSITION PRODUCTS:

This material is stable under recommended storage and handling conditions.

HAZARDOUS POLYMERIZATION:

May not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: No data available

Chemical name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/mouse)	LD50 (inhalation, rat/mouse)
Streptomycin Sulfate	430 mg/kg (rat)	No data available	No data available
Penicillin G, Sodium salt	6916 mg/kg (rat)	No data available	No data available

Principle routes of exposure / potential health effect:

Eyes;	May cause eye irritation with susceptible persons.
Skin;	May cause skin irritation in susceptible person.
Inhalation;	May be harmful by inhalation
Ingestion;	May be harmful if swallowed

Carcinogenic effects;	none
Mutagenic effects	none
Reproductive toxicity	none
Sensitization	none

Target organ effect	No known effects under normal use conditions.
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12. ECOLOGICAL INFORMATION

Ecotoxicity effects:	No information available
Mobility:	No information available
Biodegradation:	Inherently biodegradable
Bioaccumulation:	Does not bioaccumulate

13. DISPOSAL CONSIDERATION

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

TRANSPORTATION AND HAZARDOUS MATERIALS DESCRIPTION:

Package and transport in accordance with Department of Transportation (DOT) and other regulatory agency requirements.

U. S. DOT PROPER SHIPPING NAME:	Not regulated as a hazardous material
IATA PROPER SHIPPING NAME:	Not regulated as a hazardous material
IDENTIFICATION NUMBER:	Not regulated as a hazardous material

15. REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200: Ensure that the hazards associated with this product are transmitted to employees by means of a hazard communications program, in accordance with federal and state Occupational Safety and Health Administration (OSHA) regulations.

CERCLA/SUPERFUND HAZARD CATEGORY: At the time of this document's preparation, none of the ingredients of this product were listed in 40 CFR 302.4. The list should be periodically checked for applicable updates.

SARA 313 INFORMATION: At the time of this document's preparation, none of the ingredients of this product were listed in 40 CFR 372. The list should be periodically checked for applicable updates.

TOXIC SUBSTANCES CONTROL ACT (TSCA):

Chemical name	CAS	TSCA
Streptomycin Sulfate	3810-74-0	Listed

FEDERAL FOOD, DRUG AND COSMETIC ACT (FFDCA): FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

CALIFORNIA PROPOSITION 65:

Chemical name	CAS	Chemical Status
Streptomycin Sulfate	3810-74-0	Reproductive Toxicity: Currently listed

16. OTHER INFORMATION

REVISION SUMMARY

September 23, 2016

Original SDS established.

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To the best of our knowledge, the information contained herein is accurate. However, neither ORGANOGENIX, Inc. nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards, which exist.