

Material Safety Data Sheet

IDENTITY:	PeneFect™ Transfection Reagent	Catalog #: M0001
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Section I

Manufacturer's Name:	Life Science Biotechnology, LLC	Date Prepared:	03/10/2026
Address:	9610 Medical Center Drive, Rockville, MD 20850, USA www.lifescb.com	Telephone Number:	+1-301-328-1977

Section II – Hazard Ingredients/Identity Information

Hazardous Components – Specific Chemical Identity; Common Name(s)	OSHA PEL; ACGIH TLV; Other Limits Recommended; %
Penefect™ Transfection Reagent:	CAS No.: N/A
Fragmented Proprietary Polymer(s): 0.6 ~ 0.9 % in water	
Diluent: ddH2O	

Section III – Physical/Chemical Characteristics

Boiling Point:	N/A	Specific Gravity (H ₂ O = 1)	N/A
Vapor Pressure (mm Hg):	N/A	Melting Point:	N/A
Vapor Density (AIR = 1):	N/A	Evaporation Rate (H ₂ O = 1)	N/A
Solubility in Water:	Soluble		
Appearance and Odor:	Liquid, Colorless, Odorless		

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used):	N/A	Flammable Limits:	N/A	LEL	N/A	UEL	N/A
Extinguishing Media:	Water, CO ₂ , Foam, Dry Chemical						
Special Fire Fighting Procedures:	N/A						
Unusual Fire Explosion Hazards:	N/A						

Section V – Reactivity Data

Stability:	Stable	Conditions to Avoid (if unstable):	Strong oxidizing agents
Hazardous Decomposition or Byproducts:	N/A		
Hazardous Polymerization:	Will not occur	Conditions to Avoid (if may occur):	N/A

Section VI – Health Hazard Data

Route(s) of Entry	
Inhalation:	N/A
Skin:	Possible exposure from splashes
Eyes:	Possible exposure from splashes
Ingestion:	Possible exposure from ingestion
Health Hazards:	N/A
Carcinogenicity	
NTP:	N/A
IARC Monographs:	N/A
OSHA Regulated:	N/A
Signs and Symptoms of Exposure:	Prolonged contact may irritate skin and eyes. Prolonged exposure may cause allergic reactions. Adverse health effects are not expected from the recommended use of this product. However, if ANY symptoms occur, keep victim warm and calm. Get medical attention immediately.
Medical Conditions Generally Aggravated by Exposure:	Data not available.
Emergency and First Aid Procedures	EYE - Wash affected area with water for at least 15 minutes. SKIN - Avoid skin contact. If skin contact occurs, wash contaminated skin with soap and water and remove contaminated clothing. Get medical attention if the skin becomes irritated. INGESTION – Get medical attention immediately.

Section VII – Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled:	Absorb on neutral material. Wash area thoroughly.
Waste Disposal Method:	Dispose according to all federal and state laws.
Precautions to Be Taken in Handling and Storing:	Wear appropriate protective clothing and gloves. Store product according to recommended storage conditions.
Other Precautions:	N/A

Section VIII – Control Measures

Respiratory Protection (specify type):	None needed
Ventilation	General ventilation
Local Exhaust:	N/A
Special:	N/A
Mechanical (general):	N/A
Other:	N/A
Protective Gloves:	Rubber or chemical resistant gloves should be worn.
Eye Protection:	Safety goggles with side shields are advised.

Other Protective Clothing or Equipment:	Eye wash stations and deluge showers should also be available and a lab coat should be worn.
Work/Hygienic Practices:	Good laboratory technique should be used when handling this product. Observe appropriate chemical hygiene. Avoid contact with skin or eyes. Do not place in mouth. Do not eat, drink, or smoke while working with product. Upon completion of work activities involving this product, wash hands thoroughly with soap and water.

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