

# IncuCyte® NuLight Green Lentivirus (EF-1 Alpha, Bleo)

1. IDENTIFICATION	Includes product identifier; manufacturer or distributor name, address, phone number; emergency phone number; recommended use; restrictions on use.
Product code:	Catalogue Number 4477
Product name:	IncuCyte® NuLight Red Lentivirus (EF-1 Alpha, Bleo)
Unit size:	0.6 mL
Manufacturer/supplier:	Essen BioScience Inc. 300 West Morgan Road Ann Arbor MI 48108 USA
Emergency contact:	+1 (734) 769-1600
Fax contact:	+1 (734) 769-7295

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

2. HAZARD IDENTIFICATION	Includes all hazards regarding the chemical; required label elements.		
<p>Replication-defective lentiviral vectors, such as the 3rd generation vector provided in this product, are not known to cause any diseases in humans or animals. However, lentivirus particles still pose some biohazardous risk because they can transduce primary human cells and can integrate into the host cell genome thus posing some risk of insertional mutagenesis. For this reason, we highly recommend that you treat lentiviral stocks as Biosafety Level 2 (BSL-2,</p>	<p>BL-2) organisms and strictly follow all published BL-2 guidelines with proper waste decontamination. For more information about the BL-2 guidelines and lentivirus handling, we recommend referring to local documentation based on geography. The Essen BioScience 3rd generation HIV-based lentiviruses meet BL-2 requirements based on the criteria in the document, "Biosafety in Microbiological and Biomedical Laboratories", 5th Edition, published by the Centers for Disease Control (CDC).</p>	<p>This document may be downloaded at <a href="http://www.cdc.gov/biosafety/publications/bmb15/index.htm">http://www.cdc.gov/biosafety/publications/bmb15/index.htm</a></p> <p><b>Institutional Guidelines:</b> Safety requirements for use and handling of lentiviruses may vary at individual institutions. We recommend consulting your institution's health and safety guidelines and/or officers prior to implementing the use of these reagents in your experiments.</p>	
Signal word:	Not hazardous.		
Hazard statement:	Not hazardous.		
Hazard pictogram:	None		
Principle routes of exposure/Potential health effects			
Eyes:	No information available.		
Skin:	No information available.		
Inhalation:	No information available.		
Ingestion:	May be harmful if swallowed.		
Specific effects			
Carcinogenic effects:	No information available.		
Mutagenic effects:	No information available.		
Reproductive toxicity:	No information available.		
Sensitization:	No information available.		
Target organ effects:	No information available.		
HMIS:	Health	Flammability	Reactivity
	0	0	0

<b>3. COMPOSITION / INFORMATION ON INGREDIENTS</b>	<b>Includes information on chemical ingredients; trade secret claims.</b>
Hazardous /non-hazardous components	Recombinant lentivirus
<b>4. FIRST-AID MEASURES</b>	<b>Includes important symptoms/effects, acute, delayed; required treatment.</b>
Skin contact:	Rinse with plenty of water. If symptoms arise, call a physician.
Eye Contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion:	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
Inhalation:	Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.
Notes to physician:	Treat symptomatically.
<b>5. FIRE-FIGHTING MEASURES</b>	<b>Includes important symptoms/effects, acute, delayed; required treatment.</b>
Suitable extinguishing media:	Water spray, alcohol-resistant foam, dry chemical or CO <sub>2</sub> .
Special protective equipment for fire fighters:	Wear self-contained breathing apparatus and protective suit.
<b>6. ACCIDENTAL RELEASE MEASURES</b>	<b>Lists emergency procedures; protective equipment; proper methods of containment and cleanup.</b>
Personal precautions:	Evacuate area. Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.
Methods and materials for containment and cleaning up:	Absorb with sand or vermiculite, sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.
Environmental precautions:	Prevent product from entering drains.
<b>7. HANDLING AND STORAGE</b>	<b>Lists precautions for safe handling and storage, including incompatibilities.</b>
Handling:	Should be handled by trained personnel observing good laboratory practices.
Storage:	Keep in properly labeled containers.
<b>8. EXPOSURE CONTROLS/PERSONAL PROTECTION</b>	<b>Lists OSHA's Permissible Exposure Limits (PELs); ACGIH Threshold Limit Values (TLVs); and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the SDS where available as well as appropriate engineering controls; personal protective equipment (PPE).</b>
Engineering measures:	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment:	Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.
Respiratory protection:	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection:	Impervious gloves.
Eye protection:	Safety glasses with side-shields.
Skin and body protection:	Lightweight protective clothing.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice.

<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>	<b>Lists the chemical's characteristics.</b>
General information:	
Form:	No information available.
Important health and safety environmental information:	
Boiling point:	No information available.
Melting point/range:	No information available.
Flash point:	No information available.
Autoignition temperature:	No information available.
Oxidizing properties:	No information available.
Water solubility:	No data available.
<b>10. STABILITY AND REACTIVITY</b>	<b>Lists chemical stability and possibility of hazardous reactions.</b>
Stability:	Stable under normal conditions.
Materials to avoid:	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products:	No information available.
Polymerization:	Hazardous polymerization does not occur.
<b>11. TOXICOLOGICAL INFORMATION</b>	<b>Includes routes of exposure; related symptoms, acute and chronic effects; numerical measures of toxicity.</b>
Acute toxicity:	Not hazardous.
Principle routes of exposure/potential health effects	
Eyes:	No information available.
Skin:	No information available.
Inhalation:	No information available.
Ingestion:	May be harmful by ingestion.
Carcinogenic effects:	No information available.
Mutagenic effects:	No information available.
Reproductive toxicity:	No information available.
Sensitization:	No information available.
Target organ effects:	No information available.
<b>12. ECOLOGICAL INFORMATION</b>	<b>Lists chemical's impact on the environment.</b>
Ecotoxicity effects:	No information available.
Mobility:	No information available.
Bioaccumulation:	Inherently biodegradable.
Bioaccumulation:	Does not bioaccumulate.
<b>13. DISPOSAL CONSIDERATIONS</b>	<b>Dispose of in accordance with local regulations.</b>

<b>14. TRANSPORTATION INFORMATION</b>		<b>Includes information on chemical ingredients; trade secret claims.</b>
DOT (US)		
UN number:	3373	
Hazard class:	6.2	
Proper shipping name:	Biological substance, Category B	
Reportable quantity (RQ):	No information available.	
Poison inhalation hazard:	No	
IMDG		
UN number:	3373	
Hazard class:	6.2	
Proper shipping name:	Biological substance, Category B	
IATA		
UN number:	3373	
Hazard class:	6.2	
Proper shipping name:	Biological substance, Category B	
<b>15. REGULATORY INFORMATION</b>		<b>Lists national and local regulations.</b>
US Federal Regulations		
SARA 313:	Not determined.	
Clean air act, section 112 hazardous air pollutants (HAPs) (see 40 CFR 61):	Not listed.	
US State Regulations		
California proposition 65:	This product does not contain chemicals listed under Proposition 65.	
WHMIS hazard class:	Non-controlled.	

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The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any

damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

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**END OF SAFETY DATA SHEET**