

## SAFETY DATA SHEET

Version 8.8  
Revision Date 04/30/2025  
Print Date 10/06/2025

## SECTION 1. IDENTIFICATION

## 1.1 Product identifiers

Product name : LentiBrite™ RFP-LC3 Lentiviral Biosensor

Product Number : 17-10143

Catalogue No. : 6B7503

Brand : Millipore

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Biochemical research/analysis

## 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.  
3050 SPRUCE ST  
ST. LOUIS MO 63103  
UNITED STATES

Telephone : +1 314 771-5765

Fax : +1 800 325-5052

## 1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-  
527-3887 CHEMTREC (International) 24  
Hours/day; 7 Days/week

## SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Not a hazardous substance or mixture.

**Other hazards**

Biohazard, Biosafety Level 2

Lentiviruses are a subset of retroviruses, with the ability to integrate into host chromosomes, and to infect non-dividing cells. These viruses can cause severe immunologic and neurologic disease in their natural hosts. Lentivirus vector systems can include viruses of non-human/non-primate origin. The more recent generation vectors have been designed to significantly diminish the possibility for recombination to occur resulting in a wild type-potentially infectious virus. Typical lentivirus vectors are packaged using pseudotyped enveloped proteins. It is usually recommended that work with nonhuman lentiviruses that

are incapable of establishing productive infections in humans be conducted at BSL-2. Work with simian or human lentiviruses is typically conducted at a higher containment level. genetically modified organism

#### **GHS label elements**

Not a hazardous substance or mixture.

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### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

#### **Components**

No hazardous ingredients

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### **SECTION 4. FIRST AID MEASURES**

|                                                             |                                                                                                                                                        |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| If inhaled                                                  | : After inhalation: fresh air. Consult doctor if feeling unwell.                                                                                       |
| In case of skin contact                                     | : In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.<br><br>Wash off with suitable disinfectants. |
| In case of eye contact                                      | : After eye contact: rinse out with plenty of water. Remove contact lenses.                                                                            |
| If swallowed                                                | : After swallowing: immediately make victim drink water (two glasses at most).<br><br>Consult a physician if necessary.                                |
| 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                                  |
| Protection of first-aiders                                  | : For personal protection see section 8.                                                                                                               |
| Notes to physician                                          | : No data available                                                                                                                                    |

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### **SECTION 5. FIRE-FIGHTING MEASURES**

|                                |                                                                                                           |
|--------------------------------|-----------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media   | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : For this substance/mixture no limitations of extinguishing agents are given.                            |

|                                                |                                                                  |
|------------------------------------------------|------------------------------------------------------------------|
| Specific hazards during fire fighting          | : Not combustible.                                               |
| Hazardous combustion products                  | : Hydrogen chloride gas<br>Sodium oxides                         |
| Specific extinguishing methods                 | : No data available                                              |
| Further information                            | : No data available                                              |
| Special protective equipment for fire-fighters | : In the event of fire, wear self-contained breathing apparatus. |

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

|                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | : Advice for non-emergency personnel:<br>Avoid direct contact with the biological material.<br>Do not breathe vapors, aerosols.<br>Evacuate the danger area, observe emergency procedures, consult an expert.<br>Advice for emergency responders:<br>For personal protection see section 8.                                                                                                                                                                    |
| Environmental precautions                                           | : If spillage occurs place absorbent material over the spillage and disinfect. See below.<br><br>Do not let product enter drains.                                                                                                                                                                                                                                                                                                                              |
| Methods and materials for containment and cleaning up               | : Cover drains. Collect, bind, and pump off spills.<br>Observe possible material restrictions (see sections 7 and 10).<br>Take up with liquid-absorbent material (e.g. Chemizorb® ). Dispose of properly. Clean up affected area. Do not inhale vapours.<br><br>Clean up and decontaminate all materials for disposal, as well as contaminated surfaces, with an effective decontamination method such as autoclaving, incineration, or chemical disinfection. |

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## SECTION 7. HANDLING AND STORAGE

For precautions see section 2.2.

|                                                 |                                                                |
|-------------------------------------------------|----------------------------------------------------------------|
| Advice on protection against fire and explosion | : Handle material under Biosafety Level 2 (BSL-2) containment. |
| Advice on safe handling                         | : For personal protection see section 8.                       |
| Storage class                                   | : 10, Combustible liquids                                      |
| Recommended storage temperature                 | : Recommended storage temperature see product label.           |
| Further information on storage stability        | : Recommended storage temperature see product label.           |

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Engineering measures** : No data available

### **Personal protective equipment**

Respiratory protection : 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.

required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: : Filter type P3

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Hand protection

|                    |                  |
|--------------------|------------------|
| Material           | : Nitrile rubber |
| Break through time | : 480 min        |
| Glove thickness    | : 0.11 mm        |
| Protective index   | : Full contact   |

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|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer             | : KCL 741 Dermatril® L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Material                 | : Nitrile rubber                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Break through time       | : 480 min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Glove thickness          | : 0.11 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Protective index         | : Splash contact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Manufacturer             | : KCL 741 Dermatril® L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Remarks                  | : Handle with impervious gloves.<br>Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.<br>This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: <a href="http://www.kcl.de">www.kcl.de</a> ). |
| Eye protection           | : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).<br>Safety glasses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Skin and body protection | : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Hygiene measures         | : General industrial hygiene practice.<br>Change contaminated clothing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                             |                     |
|-----------------------------|---------------------|
| Appearance                  | : liquid            |
| Color                       | : clear, colorless  |
| Odor                        | : No data available |
| Odor Threshold              | : No data available |
| pH                          | : No data available |
| Melting point               | : No data available |
| Boiling point/boiling range | : No data available |

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|                                                     |                                |
|-----------------------------------------------------|--------------------------------|
| Flash point                                         | : No data available            |
| Evaporation rate                                    | : No data available            |
| Flammability (solid, gas)                           | : No data available            |
| Flammability (liquids)                              | : No data available            |
| Burning rate                                        | : No data available            |
| Upper explosion limit /<br>Upper flammability limit | : No data available            |
| Lower explosion limit /<br>Lower flammability limit | : No data available            |
| Vapor pressure                                      | : No data available            |
| Relative vapor density                              | : No data available            |
| Relative density                                    | : No data available            |
| Density                                             | : No data available            |
| Water solubility                                    | : No data available            |
| Partition coefficient: n-<br>octanol/water          | : No data available            |
| Autoignition temperature                            | : No data available            |
| Decomposition<br>temperature                        | : No data available            |
| Viscosity, dynamic                                  | : No data available            |
| Viscosity, kinematic                                | : No data available            |
| Flow time                                           | : No data available            |
| Explosive properties                                | : Not classified as explosive. |
| Oxidizing properties                                | : none                         |
| Particle characteristics                            |                                |
| Particle size                                       | : No data available            |

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## SECTION 10. STABILITY AND REACTIVITY

|                                    |                                                                                       |
|------------------------------------|---------------------------------------------------------------------------------------|
| Reactivity                         | : No data available                                                                   |
| Chemical stability                 | : No data available                                                                   |
| Possibility of hazardous reactions | : Violent reactions possible with:<br>The generally known reaction partners of water. |
| Conditions to avoid                | : No data available                                                                   |
| Incompatible materials             | : No data available                                                                   |
| Hazardous decomposition products   | : In the event of fire: see section 5                                                 |

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## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Mixture

##### Acute toxicity

Oral: No data available

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 ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

##### Reproductive toxicity

No data available

##### Specific target organ toxicity - single exposure

No data available

##### Specific target organ toxicity - repeated exposure

No data available

##### Aspiration hazard

No data available

## 11.2 Additional Information

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Handle in accordance with good industrial hygiene and safety practice.

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : The used material and any other products containing infectious materials must be disposed of using an autoclave and in accordance with all local and national regulations.

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Contaminated packaging : Dispose of as unused product.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### IATA-DGR

UN/ID No. : UN 3245  
Proper shipping name : Genetically modified organisms  
Class : 9  
Packing group : Not assigned by regulation

Labels : Class 9 - Miscellaneous dangerous substances and articles,  
Packing instruction (cargo : 959  
aircraft)  
Packing instruction : 959  
(passenger aircraft)

**IMDG-Code**

UN number : UN 3245  
Proper shipping name : GENETICALLY MODIFIED ORGANISMS

Class : 9  
Subsidiary risk : 3245  
Packing group : Not assigned by regulation  
Labels : 9 (3245)  
EmS Code : F-A, S-T  
Marine pollutant : no

**Transport in bulk according to IMO instruments**

Not applicable for product as supplied.

**National regulation**

**49 CFR Road**

Not regulated as a dangerous good

Poison Inhalation Hazard : No

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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**SECTION 15. REGULATORY INFORMATION**

**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**US State Regulations**

**Massachusetts Right To Know**

|                 |           |
|-----------------|-----------|
| water           | 7732-18-5 |
| sodium chloride | 7647-14-5 |

#### **Maine Chemicals of High Concern**

|                 |           |
|-----------------|-----------|
| water           | 7732-18-5 |
| sodium chloride | 7647-14-5 |

#### **Vermont Chemicals of High Concern**

|                 |           |
|-----------------|-----------|
| water           | 7732-18-5 |
| sodium chloride | 7647-14-5 |

#### **Washington Chemicals of High Concern**

|                 |           |
|-----------------|-----------|
| water           | 7732-18-5 |
| sodium chloride | 7647-14-5 |

#### **The ingredients of this product are reported in the following inventories:**

TSCA : Product contains substance(s) not listed on TSCA inventory.

#### **TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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## **SECTION 16. OTHER INFORMATION**

### **Full text of other abbreviations**

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand

Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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Revision Date : 04/30/2025

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