# Safety Data Sheet

**Issue Date:** 08-Feb-2024 **Revision Date:** 09-Feb-2024 **Version** 1

## 1. IDENTIFICATION

**Product identifier**

**Product Name** LP3A Reagent

**Other means of identification**

**SDS #** BIOS-048

**Product Code** 100749

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Reagent. For industrial use.

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

**Supplier Address**
BioSkryb Genomics, Inc.
2810 Meridian Parkway
Suite 110
Durham, NC 27713

**Emergency telephone number**

**Company Phone Number** Phone: (919) 370-0841
**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Physical state** Liquid

**Classification**

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS No | Weight-% |
|---|---|---|
| Glycerol | 56-81-5 | 10-25 |

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

## 4. FIRST AID MEASURES

**Description of first aid measures**

| | |
|---|---|
| **General Advice** | Provide this SDS to medical personnel for treatment. |
| **Eye Contact** | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| **Skin Contact** | Wash off immediately with plenty of water for at least 15 minutes. |
| **Inhalation** | Remove to fresh air. |
| **Ingestion** | Clean mouth with water and drink afterwards plenty of water. |

**Most important symptoms and effects, both acute and delayed**

| | |
|---|---|
| **Symptoms** | Not determined. |

**Indication of any immediate medical attention and special treatment needed**

| | |
|---|---|
| **Notes to Physician** | Treat symptomatically. |

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

| | |
|---|---|
| **Unsuitable Extinguishing Media** | Not determined. |

**Specific Hazards Arising from the Chemical**
Not determined.

**Protective equipment and precautions for firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

| | |
|---|---|
| **Personal Precautions** | Use personal protective equipment as required. |

**Environmental precautions**

| | |
|---|---|
| **Environmental precautions** | See Section 12 for additional Ecological Information. |

**Methods and material for containment and cleaning up**

| | |
|---|---|
| **Methods for Containment** | Prevent further leakage or spillage if safe to do so. |
| **Methods for Clean-Up** | Keep in suitable, closed containers for disposal. |

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Materials** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Glycerol<br>56-81-5 | - | TWA: 15 mg/m$^3$ mist, total particulate<br>TWA: 5 mg/m$^3$ mist, respirable fraction<br>(vacated) TWA: 10 mg/m$^3$ mist, total particulate<br>(vacated) TWA: 5 mg/m$^3$ mist, respirable fraction | - |

**Appropriate engineering controls**

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Refer to 29 CFR 1910.133 for eye and face protection regulations.

**Skin and Body Protection** Refer to 29 CFR 1910.138 for appropriate skin and body protection.

**Respiratory Protection** Refer to 29 CFR 1910.134 for respiratory protection requirements.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

**Physical state** Liquid
**Appearance** Not determined
**Color** Not determined
**Odor** Not determined
**Odor Threshold** Not determined

| Property | Values | Remarks • Method |
|---|---|---|
| **pH** | No data available | |
| **Melting point / freezing point** | No data available | |
| **Initial boiling point and boiling range** | No data available | |
| **Flash point** | No data available | |
| **Evaporation Rate** | Not determined | |
| **Flammability (Solid, Gas)** | Liquid-Not applicable | |

| | |
|---|---|
| **Flammability Limit in Air** | |
| **Upper flammability or explosive limits** | No data available |
| **Lower flammability or explosive limits** | No data available |
| **Vapor Pressure** | Not determined |
| **Vapor Density** | No data available |
| **Relative Density** | Not determined |
| **Water Solubility** | Not determined |
| **Solubility in other solvents** | Not determined |
| **Partition Coefficient** | Not determined |
| **Autoignition temperature** | No data available |
| **Decomposition temperature** | Not determined |
| **Kinematic viscosity** | Not determined |
| **Dynamic Viscosity** | Not determined |
| **Explosive Properties** | Not determined |
| **Oxidizing Properties** | Not determined |

## 10. STABILITY AND REACTIVITY

**Reactivity**
Not reactive under normal conditions.

**Chemical stability**
Stable under recommended storage conditions.

**Possibility of hazardous reactions**
None under normal processing.

**Conditions to Avoid**
Keep out of reach of children.

**Incompatible materials**
None known based on information supplied.

**Hazardous decomposition products**
None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

| | |
|---|---|
| **Eye Contact** | Avoid contact with eyes. |
| **Skin Contact** | Avoid contact with skin. |
| **Inhalation** | Do not inhale. |
| **Ingestion** | Do not ingest. |

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Glycerol<br>56-81-5 | = 12600 mg/kg ( Rat ) | > 10 g/kg ( Rabbit ) | > 2.75 mg/L ( Rat ) 4 h |

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity** Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Numerical measures of toxicity**

**The following values are calculated based on chapter 3.1 of the GHS document**

**Oral LD50** 12,600.00 mg/kg
**Dermal LD50** 10,000.00 mg/kg
**ATEmix (inhalation-dust/mist)** >2.75 mg/l

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Component Information**

| Chemical name | Algae/aquatic plants | Fish | Crustacea |
|---|---|---|---|
| Glycerol<br>56-81-5 | | LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss) | |

**Persistence/Degradability**
Not determined.

**Bioaccumulation**
There is no data for this product.

**Mobility**

| Chemical name | Partition coefficient |
|---|---|
| Glycerol<br>56-81-5 | -1.75 |

**Other adverse effects**
Not determined

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

## 15. REGULATORY INFORMATION

**International Inventories**

| Chemical name | TSCA | TSCA Inventory Status | DSL/NDSL | EINECS/ELINCS | ENCS | IECSC | KECL | PICCS | AIIC |
|---|---|---|---|---|---|---|---|---|---|
| Glycerol | X | ACTIVE | X | X | X | X | X | X | X |

**Legend:**

***TSCA*** *- United States Toxic Substances Control Act Section 8(b) Inventory*

***DSL/NDSL*** *- Canadian Domestic Substances List/Non-Domestic Substances List*

***EINECS/ELINCS*** *- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

***ENCS*** *- Japan Existing and New Chemical Substances*

***IECSC*** *- China Inventory of Existing Chemical Substances*

***KECL*** *- Korean Existing and Evaluated Chemical Substances*

***PICCS*** *- Philippines Inventory of Chemicals and Chemical Substances*

***AICS*** *- Australian Inventory of Chemical Substances*

**US Federal Regulations**

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| Glycerol<br>56-81-5 | X | X | X |

## 16. OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health hazards** | **Flammability** | **Instability** | **Special hazards** |
| | - | - | - | - |
| **HMIS** | **Health hazards** | **Flammability** | **Physical hazards** | **Personal Protection** |
| | - | - | - | Not determined |

**Issue Date:** 08-Feb-2024
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**Revision Note:** New format

**Disclaimer**
**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**BioSkryb Genomics, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.**

**End of Safety Data Sheet**