

1. Identification of the Substance or Mixture/Preparation & of the Company/Undertaking

Product identifiers:

Product Name: SEZ1

Part Number: 100046

CAS-No: 56-81-5

Recommended use of the chemical and restrictions on use:

Recommended use: This product is for research and development only

Restrictions on use: No information available

Details of the supplier of the safety data sheet:

Manufacturer address:

BioSkryb Genomics, Inc.
2810 Meridian Parkway, Suite 110
Durham, NC 27713 USA

Company phone number:

+1 919-370-0841

E-mail address:

info@bioskryb.com

Emergency telephone number:

24 Hour Emergency Phone Number: 1-800-535-5053

2. Hazards Identification

Classification of the substance or mixture: This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazard statements: Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Hazards not otherwise classified (HNOC):

Can be irritating to the eyes. Can be harmful if ingested. Can be harmful if inhaled. Avoid breathing mist. Can be irritating to the skin.

3. Composition/Information on Ingredients

Chemical characterization: Mixtures

Chemical name	CAS No	Weight-%	Trade Secret
Trade Secret	Trade Secret	5 – 10%	*
glycerol	CAS 56-81-5	60-80%	

*The product contains no substances which at their given concentration are considered to be hazardous to health.

4. First Aid Measures

Description of first aid measures:

Eye Contact: Rinse immediately with plenty of water - also, under the eyelids - for at least 15 minutes. Consult a physician if necessary.

Skin Contact: Wash off immediately with plenty of water for at least 15 minutes.

Inhalation: Move to fresh air.

Most important Symptoms and Effects: No information available.

Ingestion: Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Not an expected route of exposure.

Notes to Physician: Treat symptomatically.

5. Firefighting Measures

Extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special hazards arising from the substance or mixture: No information available.

Advice for firefighters: Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Further information: No data available

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Always wear recommended Personal Protective Equipment. Handle in accordance with good industrial hygiene and safety practice

Environmental precautions: Dilute with plenty of water.

Methods and materials for containment and cleaning up: Soak up with inert absorbent material.

7. Handling and Storage

Precautions for safe handling: Do not ingest. Avoid contact with skin, eyes, and clothing. Handle in accordance with good industrial hygiene and safety practice. Always wear recommended personal protective equipment. Keep container tightly closed when not in use. Do not reuse container.

Conditions for safe storage: Store between the following temperatures: -15 to -25°C (5 to 13°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Specific end use(s): Apart from the uses mentioned in section 1, no other specific uses are stipulated.

For research use only. Not for use in diagnostic procedures.

8. Exposure Controls/Personal Protection

Engineering Controls: No special requirements to be met.

Exposure controls: Wear proper personal protective equipment.

Eye/face protection: No special requirement to be met.

Skin and body protection: Wear chemical-resistant gloves, footwear, and protective clothing appropriate for risk of exposure. Wash contaminated clothing before reusing.

Respiratory protection: No special equipment required.

Control of environmental exposure: Handle in accordance with good industrial hygiene and safety practice

9. Physical and Chemical Properties

Information on basic physical and chemical properties:

a) **Appearance Form:** clear liquid

b) **Odor:** No data available

c) **Odor Threshold:** No data available

d) **pH:** 7.0

e) **Melting point/freezing point:** No data available

f) **Initial boiling point and boiling range:** No data available

g) **Flash point:** No data available

h) **Evaporation rate:** No data available

i) **Flammability (solid, gas):** No data available

- j) **Upper/lower flammability or explosive limits:** No data available
- k) **Vapor pressure:** No data available
- l) **Vapor density:** No data available
- m) **Relative density:** No data available
- n) **Water solubility:** Soluble in water
- o) **Partition coefficient n-octanol/water:** No data available
- p) **Auto-ignition temperature:** No data available
- q) **Decomposition temperature:** No data available
- r) **Viscosity:** No data available
- s) **Explosive properties:** No data available
- t) **Oxidizing properties:** No data available

10. Stability and Reactivity

Reactivity: No further relevant information available.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No further relevant information available.

Incompatible materials: None known based on information supplied.

Hazardous decomposition products: No dangerous decomposition products known.

Other decomposition products: No dangerous decomposition products known.

Hazardous decomposition products formed under fire conditions: No dangerous decomposition products known.

In the event of fire: See section 5

11. Toxicological Information

Information on toxicological effects:

Chemical Name	LD50 Oral	LD50 Dermal	LD50 Inhalation
Glycerol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m ³ (Rat) 1 h

Acute toxicity: Product does not present an acute toxicity hazard based on known or supplied information.

Dermal: No data available

Skin corrosion/irritation: No irritant effect.

Serious eye damage/eye irritation: Irritating effect.

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity:

IARC: No component 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 component 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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately. Handle in accordance with good industrial hygiene and safety practices.

12. Ecological Information

Toxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: No information available

13. Disposal Considerations

Waste treatment methods:

Product: Smaller quantities can be disposed of with household waste.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

Combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused container.

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

14. Transport Information

DOT (US): Not regulated

IMDG: Not regulated

IATA: Not regulated

15. Regulatory information

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

SARA 313 Components: 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

SARA 311/312 Hazards: None

16. Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. 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.

Users must make independent determinations of suitability and completeness of information from all sources to assure proper use, storage and disposal of these materials and the safety and health of employees and customers and the protection of the environment.

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