

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

Product identifiers:

Product Name: 12X SS2

Part Number: 100016

Recommended use of the chemical and restrictions on use:

Recommended use: Reagent

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. Hazard 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

The product contains no substances which, at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

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. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Skin contact: Rinse with plenty of water. Immediate medical attention is not required.

Inhalation: Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Move to fresh air.

Ingestion: Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

Most important symptoms and effects: Not applicable

Notes to physician: Treat symptomatically.

5. Firefighting Measures

Extinguishing media:

Suitable extinguishing media: Water spray, carbon dioxide (CO₂), foam, dry chemical

Unsuitable extinguishing media: No information available.

Special hazards arising from the substance or mixture: Not known.

Advice for firefighters: Standard procedure for chemical fires.

Further information: None

6. Accidental Release Measures

Advice for non-emergency personnel: No special precautions required.

Advice for emergency responders: No special precautions required.

Personal precautions, protective equipment and emergency procedures: Wear recommended personal protective equipment. Ensure adequate ventilation.

Environmental precautions: No special environmental precautions required.

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: Ensure adequate ventilation, especially in confined areas.

Exposure controls: Contains no substances with occupational exposure limit values.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin and body protection: Wear suitable gloves

Glove material: Compatible chemical-resistant gloves.

Hygiene measures: Change contaminated clothing. Preventive skin protection recommended.

Wash hands after working with substance.

Respiratory protection: No special equipment required. Ensure adequate ventilation, especially in confined areas.

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

9. Physical and Chemical Properties

Information on basic physical and chemical properties:

a) **Appearance Form:** Clear liquid

b) **Odor:** Odorless

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

d) **pH:** 3.0-5.0

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 at 68 °F (20 °C)

- 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:** Not classified as explosive.
- t) **Oxidizing properties:** None
- u) **Corrosion:** May be corrosive to metals.

10. Stability and Reactivity

Chemical stability: The product is chemically stable under standard ambient conditions (room temperature).

Possibility of hazardous reactions: None under normal processing.

Incompatible materials: Metals, metal alloys

Hazardous decomposition products: No data available

Hazardous decomposition products formed under fire conditions: None known based on information supplied.

In the event of fire: See section 5

11. Toxicological Information

Information on toxicological effects:

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: Discharge into the environment must be avoided.

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): Classified under HAZMAT Class 8

IMDG: Classified under HAZMAT Class 8

IATA: Classified under HAZMAT Class 8

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.