SAFETY DATA SHEET

SECTION 1. Identification of the substance/mixture and of the company

1. Product identifier

Product No: BR4C351-01/02/03

Product Name: 5× SDS-PAGE Protein Loading Buffer

2. Recommended use of the chemical and restrictions on use

Relevant identified uses: For research use only.

Uses advised against: Not used for diagnostic procedures.

3. Details of the supplier of the safety data sheet

Zhuhai Biori Biotechnology Co.,Ltd

No, 88, Shui an 1st Road,Xiangzhou District, Zhuhai, Guangdong, China.

Hotline: +86-0756-8699969

SECTION 2. Hazard Identification

GHS (Globally Harmonized System) Classification.

1. Signal word: None.

2. Health hazards: Not classified.

3. Physical hazards: Not classified.

4. Hazard statements: Not applicable.

5. Precautionary Statements: Not applicable.

6. Principle Routes of Exposure/Potential Health effects

Eyes: May cause eye irritation in susceptible individuals.

Skin: May cause skin irritation in susceptible individuals.

Inhalation: May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

7. Specific effects

Carcinogenic effects: None.

Mutagenic effects: None.

Reproductive toxicity: None.

Sensitization: None.

SECTION 3. Composition/information on ingredients

The product contains no substances considered harmful to health at the given concentration.

CAS#	Chemical Name	Weight(%)	EINECS#
151-21-3	Sodium lauryl sulfate	1-5	205-788-1
7647-01-0	Hydrogen chloride	0.1-0.9	231-595-7
7732-18-5	H2O	Balance	231-791-2

SECTION 4. First aid measures

1.Eye Contact:Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.Skin Contact:Rinse skin with water. Immediate medical attention is not required.

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

4.Inhalation:Not expected to be an inhalation hazard under anticipated conditions of normal use of this material.Consult a physician if necessary.

5.Self-Protection of the First Aider:No special precautions required.

6. Most important symptoms and effects, both acute and delayed:None reasonably foreseeable.

7.Notes to Physician:Treat symptomatically.

SECTION 5. Fire-Fighting measures

1.Suitable extinguishing media: Carbon dioxide (CO_2), foam, dry chemical.

2.Unsuitable extinguishing media: No information available.

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

4. Protective equipment and precautions for firefighters: Standard procedure for chemical fires.

SECTION 6. Accidental release measures

1. Personal precautions: Always wear recommended Personal Protective Equipment. Use personal protection equipment.

2. Methods for cleaning up: Absorb with inert absorbent material.

3. Environmental precautions: No special environmental precautions required. See Section 12 for more information.

SECTION 7. Handling and storage

1. Handling: Always wear recommended Personal Protective Equipment. Wear personal protective equipment.

2. Storage:Keep in a dry, cool and well-ventilated place. Keep in -20±5℃.

3. Specific end use (s): For research use only.

SECTION 8. Exposure controls/personal protection

1. Exposure Limits: We are not aware of any national exposure limit.

2. Engineering measures: Ensure adequate ventilation, especially in confined areas.

3. Personal protective equipment: Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment of each laboratory that may use the material.

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.

4. Environmental exposure controls: Avoid discharge into drains and waterways whenever possible No special environmental precautions required.

SECTION 9. Physical and chemical properties

Physical and chemical Properties	Information	Physical and chemical Properties	Information
Form	Liquid	Flammability (liquid)	No Data
Appearance	Blue	Flammability (solid,gas)	No Data
Odor	No Data	Explosion Limits	No Data
Odor Threshold	No Data	Decomposition Temperature	No Data
Boiling point / boiling range	No Data	Lower explosion limit	No Data
Melting point / melting range	No Data	Solubility in other solvents	No Data
flash point	No Data	Water Solubility	No Data
Autoignition temperature	No Data	Viscosity	No Data
Softening Point	No Data	pH value	No Data

SECTION 10. Stability and reactivity

1. Chemical stability: Stable under normal conditions.

2. Reactivity: None known.

3. Possibility of hazardous reactions: Hazardous reaction has not been reported.

4. Conditions to avoid: No information available.

5. Incompatible materials: Strong acids. Strong oxidants.

6. Hazardous decomposition products: No data available

SECTION 11: Toxicological information

1. Acute toxicity:Information on toxicological effects

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium lauryl sulfate	=1288 mg/kg (Rat)	=200 mg/kg(Rabbit)	>3900mg/m3(Rat)
Hydrogen chloride	238-277 mg/kg (Rat)	>5010 mg/kg(Rabbit)	=1.68mg/L(Rat)

2. Principle Routes of exposure potential Health effects.

Eyes: Data are conclusive but insufficient for classification.

Skin: Data are conclusive but insufficient for classification.

Inhalation: Data are conclusive but insufficient for classification.

Ingestion: Data are conclusive but insufficient for classification.

Carcinogenic effects: Data are conclusive but insufficient for classification.

Mutagenic effects: Data are conclusive but insufficient for classification.

Reproductive toxicity: Data are conclusive but insufficient for classification.

Sensitization: Data are conclusive but insufficient for classification.

SECTION 12: Ecological information

1. Ecotoxicity: Contains no substances known to be hazardous to the environment or non-degradable in wastewater treatment plants.

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic in verteb rates	Toxicity to fish	Microtox Data	log Pow
Sodium lauryl sulfate	Pseudokirchneriella subcapitata EC503.59 - 15.6 mg/L (96 h) Pseudokirchneriella subcapitata EC50=117 mg/L (96 h) Desmodesmus subspicatus EC5030 - 100 mg/L (96 h) Desmodesmus subspicatus EC50=53 mg/L (72 h)	Daphnia magna EC50=1.8 mg/L (48 h)	No data available	No data available	logPow1.6
Hydrogen chloride	No data available	No data available	No data available	No data available	No data available

2. Mobility: No information available.

3. Biodegradation: No information available.

4. Bioaccumulation: No information available.

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

IATA

Proper Shipping Name: Not classified as dangerous according to shipping regulations.

Hazard Class: None.

Subsidiary class: None

Packing group: None.

UN-No: None.

SECTION 15: Regulatory information

1. International Inventories

Chemical Name	US TSCA	Canada (DSL)	NDSL	PICCS (Philippines)
Sodium lauryl sulfate	Listed	Listed	-	Listed
Hydrogen chloride	Listed	Listed	-	Listed

Chemical Name	ENCS (Japan)	IECSC - China Inventory of Existing Chemical Substances	South Korea (KECL)	AICS (Australia)
Sodium lauryl sulfate	Listed	Listed	Listed	Listed
Hydrogen chloride	Listed	Listed	Listed	Listed

Chemical Name	NZIoC - New Zealand Inventory of Chemicals	EINECS (European Union)	ELINCS (European List of Notified Chemical Substances)
Sodium lauryl sulfate	Listed	Listed	-
Hydrogen chloride	Listed	Listed	-

2. China: No information available.

SECTION 16: Other information

1. Indication of changes: GHS aligned.

2. Training instructions: Use as instructed.

3. Further information: The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. This SDS has been prepared for use with this product only.

4. Notice to readers: The information and recommendations in this safety data sheet should be regarded as a supplement to existing regulations and relevant information that should be known before. It is the responsibility of the users to determine the applicability of this information and the suitability of the material or product for any particular purpose. The health and safety of employees while using this product should be taken responsibly by the employer. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

End of Safety Date Sheet