

## SAFETY DATA SHEET

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

#### 1. Product identifier

Product No: BR2B101

Product Name: AcuGenix™ Brizol Reagent

#### 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: Danger.

2. Hazard pictograms:



3. Health hazards: May cause damage to organs through prolonged or repeated exposure.

4. Physical hazards: Not classified.

5. Hazard statements:

Harmful if swallowed

Harmful in contact with skin

Harmful if inhaled

Causes severe skin burns and eye damage

Suspected of causing genetic defects

May cause damage to organs through prolonged or repeated exposure

Harmful to aquatic life with long lasting effects

6. Precautionary Statements:

Prevention:

Wash hands thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapours/spray

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapours/spray

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Response:

Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Call a POISON CENTER or doctor/physician if you feel unwell

Wash with plenty of soap and water

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

Remove person to fresh air and keep comfortable for breathing

Rinse mouth

Get medical advice/attention if you feel unwell

7. Principle Routes of Exposure/Potential Health effects

Eyes: Causes severe skin burns and eye damage

Skin: Harmful in contact with skin.

Inhalation: Harmful if inhaled.

Ingestion: Harmful if swallowed.

8. Specific effects

Carcinogenic effects: None.

Mutagenic effects: None.

Reproductive toxicity: Suspected of causing genetic defects.

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#
108-95-2	Phenol	40~60	203-632-7
593-84-0	Guanidine Thiocyanate	10~20	209-812-1
7732-18-5	H2O	Balance	231-791-2

### SECTION 4. First aid measures

1. Skin contact: Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

2. Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

3. Ingestion: Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Call a doctor or poison control centre immediately.

4. Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Call a doctor or poison control centre immediately.

5. Most important symptoms and effects, both acute and delayed:

Harmful if swallowed

Harmful in contact with skin

Harmful if inhaled

Causes severe skin burns and eye damage

Suspected of causing genetic defects

May cause damage to organs through prolonged or repeated exposure

Harmful to aquatic life with long lasting effects.

6. Instructions for physicians: symptomatic treatment.

### SECTION 5. Fire-Fighting measures

1. Suitable extinguishing media: Carbon dioxide (CO<sub>2</sub>), 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 2-8°C.
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: No special environmental precautions are required.

### SECTION 9. Physical and chemical properties

Physical and chemical Properties	Information	Physical and chemical Properties	Information
Form	Liquid	Flammability(solid gas)	No Data
Appearance	Violet red	Oxidising properties	No Data
Odour	pungent	Water solubility	No Data
Odour Threshold	pungent	Upper explosion limit	No Data
Boiling point / boiling range	No Data	Lower explosion limit	No Data
Melting point / melting range	No Data	Vapour Pressure	No Data
flash point	No Data	vapour density	No Data
Autoignition temperature	No Data	Viscosity	No Data
Evaporation rate	No Data	pH value	4.2

### 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:

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50

Thiocyanic acid, compound with guanidine (1:1)	593 mg/kg	No data available	No data available
Phenol	= 340 mg/kg (Rat)	= 630 mg/kg(Rabbit)	No data available

## 2. Principle Routes of exposure potential Health effects.

Eyes: Causes serious eye damage.

Skin: Causes skin burns.

Inhalation: Harmful if inhaled. .

Ingestion: Harmful if swallowed.

Carcinogenic effects: None.

Mutagenic effects: None.

Reproductive toxicity: Suspected of causing genetic defects. .

Sensitization: None.

## SECTION 12: Ecological information

### 1. Ecotoxicity: Hazardous to the Aquatic Environment.

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Microtox Data	log Pow
Thiocyanic acid, compound with guanidine (1:1)	No data available	No data available	No data available	No data available	No data available
Phenol	Desmodesmus subspicatus EC50 187 - 279 mg/L (72 h) Pseudokirchneriella subcapitata EC50 46.42 mg/L (96 h)	Daphnia magna EC50 4.24 - 10.7 mg/L (48 h) Daphnia magna EC50 10.2 - 15.5 mg/L (48 h)	No data available	No data available	logPow1.47

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:

TSCA: Contact supplier for inventory compliance status.

DSL/NDSL: Contact supplier for inventory compliance status.

EINECS/ELINCS: Contact supplier for inventory compliance status.

ENCS: Contact supplier for inventory compliance status.

IECSC: Contact supplier for inventory compliance status.

KECL: Contact supplier for inventory compliance status.

PICCS: Contact supplier for inventory compliance status.

AIIC: Contact supplier for inventory compliance status.

NZIoC: Contact supplier for inventory compliance status.

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 Chemicals Inventory

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

2. China:

Chemical Name	China - Catalogue of Occupational Hazard Factors	China - Dangerous Goods List	China - Catalog of Hypertoxic Chemicals	China - List of Dangerous Chemicals for Priority Management
Thiocyanic acid, compound with guanidine (1:1)	Not Listed	Not Listed	Not Listed	Not Listed
Phenol	Present	Present (molten, solid or solution)	Not Listed	Present

## 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**