

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

Sample Preservative Fluid

Version
1.0

Revision Date:
2020/06/15

Date of last issue: 2020/06/15
Date of first issue: 2020/06/15

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Sample Preservative Fluid

Product number: BSC82X1-A

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended restrictions: For research use only

1.3 Details of the supplier of the safety data sheet

Company

Hangzhou Bioer Technology Co.,Ltd

Address

B No.1192 Bin'An Rd, Binjiang District, Hangzhou,
Zhejiang Province, China

E-mail

wangyi@bioer.com.cn

TEL.

+8615068190414

1.4 Emergency telephone number

+8615068190414

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

| | |
|--|-------------|
| Acute Toxicity - Oral | Category 4 |
| Acute Toxicity - Dermal | Category 4 |
| Acute Toxicity - Inhalation | Category 4 |
| Skin Corrosion / Irritation | Category 1C |
| Serious Eye Damage/Eye Irritation | Category 1 |
| Hazardous to the aquatic environment - chronic | Category 3 |

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



Hazard pictograms:

Signal Word: danger

Hazard statements

- H302 : Harmful if swallowed
- H312 : Harmful in contact with skin
- H332 : Harmful if inhaled
- H314 : Causes severe skin burns and eye damage
- H318 : Causes serious eye damage
- H412 : Harmful to aquatic life with long lasting effects

Precautionary statements

Prevention

- P260 : Do not breathe dust/fume/gas/mist/vapors/spray.
- P261 : Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 : Wash ... thoroughly after handling.
- P270 : Do not eat, drink or smoke when using this product.
- P271 : Use only outdoors or in a well-ventilated area.
- P273 : Avoid release to the environment.
- P280 : Wear protective gloves/protective clothing/eye protection/face protection.

Response

- P310 : Immediately call a POISON CENTER/doctor/...
- P312 : Call a POISON CENTER/doctor/...if you feel unwell.
- P321 : Specific treatment (see ... on this label).
- P330 : Rinse mouth.
- P363 : Wash contaminated clothing before reuse.

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P301+P312 : IF SWALLOWED: Call a POISON CENTER/doctor/...if you feel unwell.

P302+P352 : IF ON SKIN: Wash with plenty of water/...

P304+P340 : IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P362+P364 : Take off contaminated clothing and wash it before reuse.

P301+P330+P331 : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

P405 : Store locked up.

Disposal

P501:Dispose of contents/container in accordance with local/regional/national/ international regulations.

2.3 Other hazards

Not applicable.

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SECTION 3: Composition/information on ingredients

Hazardous components

| Product Name: Sample Preservative Fluid | | | |
|---|-----------|--------------------------|--|
| ingredient | CAS-No. | Concentration (% w/w) | Classification |
| Water | 7732-18-5 | 89% | Non-hazardous |
| TritonX-100 | 9002-93-1 | 5% | Not Classified |
| Guandine thiocyanate | 593-84-0 | 5% | Acute Toxicity – Oral Category 4 H302 Acute Toxicity – Dermal Category 4 H312 Acute Toxicity – Inhalation Category 4 H332 Skin Corrosion / Irritation Category 1C H314 Serious Eye Damage / Eye Irritation Category 1 H318 Hazardous to the aquatic environment – chronic Category 3 H412 |
| Tris | 77-86-1 | 1% | Not Classified |

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SECTION 4: First aid measures

4.1 Description of first aid measures

| | |
|---------------------------|--|
| General advice : | Leave this dangerous place Contact a doctor Present this SDS to the doctor present Don't let the victim be left unattended |
| If inhaled : | Call your doctor immediately or call the National Emergency Advice for Hazardous Chemicals. Transfer to fresh air. If you are unconscious, place it in a recovery position and seek medical advice. |
| In case of skin contact : | If skin or hair contact occurs, remove contaminated clothing and wash skin and hair with tap water. Seek medical advice if there is swelling, redness, blisters or irritation. Seek medical attention promptly |
| In case of eye contact : | If you come into contact with your eyes, rinse your eyes with plenty of water and seek medical advice. Continue to flush your eyes while transporting to the hospital. Remove the contact lens. Protect the eyes without injuries. Keep your eyes wide when you rinse. If you still have eye irritation, consult a specialist. Keep the airway open. |
| If swallowed : | Do not induce vomiting. Do not give milk or alcoholic beverages. Never feed anything that is unconscious to your mouth.. The victim was taken to the hospital immediately. Rinse with water. |

4.2 Most important symptoms and effects, both acute and delayed

In case of inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. In case of discomfort seek medical attention.

In case of skin contact: Wash off with soap and plenty of water for at least 15 minutes. In case of discomfort seek medical attention.

In case of eye contact: Flush eyes thoroughly with water for 15 minutes. Remove contact lenses after

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the initial 1-2 minutes and continue flushing. In case of discomfort seek medical attention.

In case of ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. In case of discomfort seek medical attention.

4.3 Indication of any immediate medical attention and special treatment needed

NO DATA.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguish with water mist, alcohol-resistant foam, dry powder or carbon dioxide

Unsuitable extinguishing media

NO DATA

5.2 Special hazards arising from the substance or mixture

NO DATA.

5.3 Advice for firefighters

Special protective equipment for firefighters :

Wear self-contained breathing apparatus for firefighting if nec-essary.

Further information:

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

For safety reasons in case of fire, cans should be stored sepa-rately in closed containments.

Use a water spray to cool fully closed containers

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions :

Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Refer to protective measures listed in sections 7 and 8.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions :

Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If there is pollution in the sewer or waterway, please report to the local authorities.

6.3 Methods and material for containment and cleaning up

a lot of leaks:

Use an inert absorbent material such as sand or soil to absorb spillage.
Collect spilled product and place it in a sealable container or bucket for disposal.
Clean contaminated areas and objects with plenty of water and detergent.

Small amount of leakage:

Absorbing materials such as sand or soil absorb spillage.
Collect spilled product and place it in a sealable container for disposal.
Clean contaminated areas and objects with water and detergent

6.4 Reference to other sections

Treat recovered material as described in the section "Disposal considerations".

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Avoid the formation of aerosols.
- Do not breathe steam/dust.
- Avoid contact - get special instructions before use.
- Avoid contact with skin and eyes.
- See section 8 for personal protection.
- Smoking, eating and drinking areas should be prohibited during use.
- Take precautions to prevent electrostatic discharge.
- Provide adequate air exchange and/or exhaust in the workroom.
- Dispose of rinse water in accordance with local and national regulations.
- To prevent leakage or spillage, provide a suitable liquid retention system.

7.2 Conditions for safe storage, including any incompatibilities

- Store in a dry, clean, cool, well-ventilated area away from direct sunlight.
- Store in the original labeled container and keep the container closed when not in use.
- Store the container upright, away from oxidizers, alkalis and food.
- Check regularly for leaks.

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SECTION 8: Exposure controls/personal protection

8.1 Occupational Exposure Limits

This product has no specified occupational exposure limits for components.

8.2 Biological occupational exposure limits

This product has no specified occupational exposure limits for components.

8.3 Engineering measures

Use only in well ventilated areas.
Keep the container closed when not in use.

8.4 Personal protective equipment

| | |
|---------------------------|---|
| Respiratory protection: | In the case of vapour formation use a respirator with an ap-proved filter. |
| Eye protection: | Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems. |
| Skin and body protection: | Impervious clothing Choose body protection according to the amount and con-centration of the dangerous substance at the work place. |
| Hand protection: | Protective gloves Use specific protective gloves for specific locations. |

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---------------------------------------|-------------------|
| Appearance and shape: | colourless liquid |
| odor: | odorless |
| pH value: | 6.0 |
| Melting point / freezing point: | No data |
| Boiling point: | No data |
| Flash point: | No data |
| Upper explosion limit: | No data |
| Lower explosion limit: | No data |
| Vapor Pressure: | No data |
| Vapor density | No data |
| density | No data |
| Solubility | Soluble in water |
| N-octanol/water partition coefficient | No data |
| Auto-ignition temperature | No data |
| Decomposition temperature | No data |

Other information-None data.

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SECTION 10: Stability and reactivity

10.1 Stability

Stable under the recommended storage conditions.

10.2 Possibility of hazardous reactions

No hazardous reactions when stored and handled within normal conditions of use.

10.3. Conditions to avoid

Avoid extremes of temperature and direct sunlight.

Avoid contact with incompatible
materials.

10.4 Incompatible materials

Oxidising agents and alkalis.

10.5 Hazardous decomposition products

Oxides of carbon and nitrogen, smoke and other toxic fumes

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SECTION 11: Toxicological information

Acute toxicity

For Guandine thiocyanate:

| | | |
|------------------------|-----------------|--|
| Oral LD50(rats): | 593 mg/kg bw | OECD Guideline 401 (Acute Oral Toxicity) |
| Dermal LD50(rabbit): | > 2000 mg/kg bw | Health effects test guidelines |
| Inhalation LC50(rats): | > 0.853 mg/L | OECD Guideline 403 (Acute Inhalation Toxicity) |

For TritonX-100:

No data available.

For Tris:

| | | |
|--------------------|------------------|--------------------|
| Oral LD50(rats): | > 5 000 mg/kg bw | OECD Guideline 425 |
| Dermal LD50(rats): | > 5 000 mg/kg bw | OECD Guideline 402 |

Skin corrosion/irritation

For Guandine thiocyanate:

Category 1C (corrosive) based on GHS criteria.

For Tris:

OECD Guideline 404 ,not irritating.

Serious eye damage/eye irritation

For Guandine thiocyanate:

OECD Guideline 405, corrosive to the skin or irritating to eyes.

For Tris:

OECD Guideline 405, not irritating.

Respiratory or skin allergies

For Guandine thiocyanate:

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OECD Guideline 429 not sensitizing to skin

Germ cell mutagenicity

For Guandine thiocyanate:

OECD Guideline 476. negative

Carcinogenicity

No data available.

Reproductive toxicity

No data available

Specific target organ toxicity (one exposure)

No data available

Specific target organ system toxicity (repeated exposure)

No data available

Aspiration hazard

No data available

Additional information

No data

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SECTION 12: Ecological information

Ecotoxicity

For Guandine thiocyanate:

| | | |
|---------------------------------------|--|---------------------|
| Fish LC50 : | 89.1 mg/L/96h (Poecilia reticulata) | OECD Guideline 203 |
| Aquatic Invertebrates EC50/LC50 : | 42.4 mg/L/48h (Daphnia magna) | OECD Guideline 202 |
| aquatic algae and cyanobacteria EC50: | 130 mg/L/72h (Desmodesmus subspicatus) | other: DIN 38412-33 |

For TritonX-100:

No data available.

For Tris:

| | | |
|---------------------------------------|--|--------------------|
| Fish LC50 : | No data available | |
| Aquatic Invertebrates EC50/LC50 : | 980 mg/L/48h (Daphnia magna) | OECD Guideline 202 |
| aquatic algae and cyanobacteria EC50: | 397mg/L/72h(Pseudokirchneriella subcapitata) | OECD Guideline 201 |

Persistence and degradability

For Guandine thiocyanate:

inherently biodegradable, fulfilling specific criteria. (OECD Guideline 302 B)

Potential bioaccumulation

No data available

Soil migration

No data available

Other environmental harmful effects

No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

The product should not be allowed to enter drains, water courses or the soil.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Send to a licensed waste management company.

Contaminated packaging

Empty remaining contents.

Dispose of as unused product.

Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

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SECTION 14: Transport information

UNRTDG: UN No.1760, CORROSIVE LIQUID, N.O.S.

IMDG: UN No.1760, CORROSIVE LIQUID, N.O.S.

IATA: UN No.1760, CORROSIVE LIQUID, N.O.S.

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

| | |
|---------------------------------------|-------|
| <i>Regulation (EC) No. 1272/2008:</i> | Exist |
| <i>Regulation (EC) No. 1907/2006:</i> | Exist |

15.2 Other regulations

Please note that waste disposal should also comply with local regulations.

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SECTION 16: Other information

16.1 Abbreviations and acronyms

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European INventory of Existing Commercial chemical Substances/European List of Notified Chemical Substances
ENCS - Japanese Existing and New Chemical Substances
IECSC - Chinese Inventory of Existing Chemical Substances
KECL - Korea Existing Chemicals List
PICCS - The Philippine Inventory of Chemicals and Chemical Substances
AICS - The Australian Inventory of Chemical Substances

16.2 Key literature references and sources for data

ECHA: <http://echa.europa.eu/>
IFA GESTIS:
[http://gestis-en.itrust.de/nxt/gateway.dll?f=templates\\$fn=default.htm\\$vid=gestiseng:sdbeng](http://gestis-en.itrust.de/nxt/gateway.dll?f=templates$fn=default.htm$vid=gestiseng:sdbeng)
eChemPortal: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
HSDB: <http://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>
ICSC: <http://www.ilo.org/dyn/icsc/showcard.home>
NITE-CHRIP: http://www.nite.go.jp/en/chem/chrip/chrip_search/srhInput

16.3 Full text of H-Statements:

H302 :Harmful if swallowed.
H312: Harmful in contact with skin.
H314: Causes severe skin burns and eye damage.
H318 : Causes serious eye damage.
H332 : Harmful if Inhalation.
H412: Harmful to aquatic life with long lasting effects.

16.4 Training advice

NO data.

16.5 Further information

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

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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.

END OF SDS.