

BSP

MATERIAL SAFETY DATA SHEET

Date of issues : 20/12/23
Version 3.1

SECTION 1 - Chemical Product and Company Identification

1.a Product Identifier

Product Form : Mixture
Product Name : BSP (Broad Spectrum Preservative)

1.b Relevant identified uses of the substance or mixture and uses advised against

Uses of the substance/mixture : Prevent contamination in tissue culture media

1.c Detail of the supplier of the safety data sheet

Company Name : PT Ropu Inti Inovasi
Company Address : Taman Wisma Asri Blok DD32/2
Bekasi City, West Java, 17121, Indonesia
Phone Number : +62 851 7955 7100
Email : ropuinti@gmail.com

1.d Emergency telephone number

Emergency Number : +62 851 7955 7100

SECTION 2 - Hazards Identification

DANGER	RATING	SCALE
Toxic if swallowed	4	4 = Non significant
Toxic to the eyes and skins	3	3 = Moderate
Fire	4	2 = High
Reactivity	4	1 = Extreme

SECTION 3 - Composition/Information on Ingredients

5-Chloro-2-methyl-3(2H)-isothiazolinone :	0,1324%
2-Methyl-3(2H)-isothiazolinone :	0,0437%
Inert :	99,839%

SECTION 4 - First aid measure

4.a Description of First aid measures

First aid measure general	: Never give anything by mouth to an unconscious person. if you feel unwell, seek medical advice
First aid measure after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a doctor
First aid measure after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap dan water, followed by warm water rinse. Wash with plenty of soap and water. If skin irritation or rash occurs; Get medical advice. Wash contaminated clothing before reuse
First aid measure after eye contact	: Rinse immedietly with plenty of water. Obtain medical attention if pain, blinking or redness persist
First aid measure after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention

4.b Most important symtoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction
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SECTION 5 - Firefighting measure

5.a Extinguishing media

Suitable extinguishing media	: Foam, dry powder, carbon dioxide, water spray, sand
Unsuitable extinguishing media	: Do not use a heavy water stream

5.b Advised for firefighters

Firefighting instruction	: Use water spray or fog for cooling exposed containers. Exercised caution when fighting any chemical fire. Contain all water used for fire-fighting to the greatest extent possible.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection

SECTION 6 - Accidental release measures

6.a For non emergency personnel

Emergency procedure	: Evacuate unnecessary personnel
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6.b For emergency responder

Protective equipment	: Equip cleanup crew with proper protection. Dilute with 100x water.
Emergency procedures	: Ventilate area.

6.c Environment precautions

Prevent entry to sewers and public waste. Notify authorities if liquid enters sewers or public waters

6.d Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up spills with inert solids. Collect spillage. Store away from other materials. Or soak up with tissue paper/mop and dilute with 100x water before release into the sewer.
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SECTION 7 - Handling and storage

7.a Precautions for safe handling

Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking, and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing vapors.
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse

7.b Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep only in the original container in a cool well ventilated place. the solution can be keep in room temperature, avoid direct sunlight
Incompatible products	: Strong bases, Strong acids
Incompatible materials	: Sources of ignition. Direct Sunlight

SECTION 8 - Exposre controls/personal protection

Appropriate engineering controls	: Ensure that proper ventilation is provided.
Personal protective equipment	: Avoid all unnecessary exposure
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses
Respiratory protection	: In case of inadequate ventilation wear respiratory protection.
Other information	: Do not eat, drink or smoke during use.

SECTION 9 - Physical and chemical properties

Physical state	: Liquid
Colour	: Clear to light amber
Odor	: Mild
Odor threshold	: No data available
pH	: 3.8
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available

Flash point	: No data available
Flammability (solid, gas)	: Not applicable
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 C	: No data available
Solubility	: Infinite in water
Viscosity, kinematic	: No data available
Viscosity dynamic	: No data available

SECTION 10 - Stability and reactivity

10.a Reactivity

No additional information available

10.b Chemical stability

Not established

10.c Possibility of hazardous reactions

Not established

10.d Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.e Incompatible materials

Strong acids. Strong bases

10.f Hazardous decomposition products

Carbon monoxide. Carbon dioxide

SECTION 11 - Toxicological information

11.a Information on toxicological effects

Likely routes of exposure	: Skin and eye contact; Ingestion; Inhalation
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified pH 3.8
Serious eye damage/irritation	: Not classified pH 3.8
Respiratory or skin sensitization	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: No additional information available
Symptoms/injuries after inhalation	: May cause allergy or asthma symptoms or breathing difficulties in inhaled. May cause an allergic skin reaction

SECTION 12 - Ecological information

12.a Toxicity

Fish : 1.6 mg/l (Exposure time 96h)

12.b Persistence and degradability

Persistence and degradability : Not established

12.c Mobility in soil

No additional information available

SECTION 13 - Disposal consideration

13.a Waste treatment considerations

Waste disposal redommendations : Dispose in a safe manner in accordance with local regulation

Ecology - waste materials : Avoid release to the environment

SECTION 14 - Transport information

ADR

No additional information available

Transport by sea

No additional information available

Air Transport

No additional information available

SECTION 15 - Regulatory information

15.a Environmental, health and safety regulations for the product

This safety data sheet complies with the requirements of the Regulation (EC) No. 1907/2006

15.b Chemical Safety Assessment

For this product, chemical safety valuation is not conducted

SECTION 16 - Other information

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is only to describe the product. The data does not signify any warranty with regard to the products' properties.