



## Safety Data Sheet

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### Section 1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Product name: Tris-Glycine-SDS Running Buffer (× 10)

SDS No. : U1629E-1

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

Research and Development

Details of the supplier of the safety data sheet

Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD.

Address: 3-1, Honmachibashi, Chuo-ku, Osaka, JAPAN

Division: Chemical Safety Management Department

Telephone number: +81-6-6946-8061

FAX: +81-6-6946-1607

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### Section 2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

ENVIRONMENT HAZARDS

Hazardous to the aquatic environment, short-term (acute): Category 3

(Note) GHS classification without description: Not classified/Classification not possible

Label elements

No GHS label element

No Signal word

HAZARD STATEMENT

H402 Harmful to aquatic life

PRECAUTIONARY STATEMENT

Prevention

P273 Avoid release to the environment.

Disposal

P501 Dispose of contents/container in accordance with local/national regulation.

Specific adverse human health effects

See "11. Toxicological Information".

**Section 3. Composition/information on ingredients**

Mixture/Substance selection:

Mixture

Ingredient name	Content (%)	CAS No.	ENCS	Chemical formula
2-Amino-2-hydroxymethyl-1,3-propanediol	2.9	77-86-1	2-318	NH <sub>2</sub> C(CH <sub>2</sub> OH) <sub>3</sub>
Glycine	14	56-40-6	9-77	H <sub>2</sub> NCH <sub>2</sub> COOH
Sodium dodecyl sulfate	0.94	151-21-3	2-1679	C <sub>12</sub> H <sub>25</sub> OSO <sub>3</sub> Na
Water	83	7732-18-5	—	H <sub>2</sub> O

Note : The figures shown above are not the specifications of the product.

**Section 4. First-aid measures**

Descriptions of first-aid measures

**IF INHALED**

Remove person to fresh air and keep comfortable for breathing.

IF INHALED: Call a POISON CENTER/doctor/physician if you feel unwell.

**IF ON SKIN**

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

If skin irritation or rash occurs: Get medical advice/attention.

**IF IN EYES**

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

If eye irritation persists: Get medical advice/attention.

**IF SWALLOWED**

Rinse mouth.

IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.

**Section 5. Fire-fighting measures**

Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

Specific hazards arising from the substance or mixture

Fire may produce irritating, corrosive and/or toxic gases.

Runoff from fire control or dilution water may cause pollution.

See "10.Stability and Reactivity".

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

Wear fire resistant or flame retardant clothing.

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

Firefighters should wear self-contained breathing apparatus with a full facepiece operated in the positive pressure mode.



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**Section 6. Accidental release measures**

Personnel precautions, protective equipment and emergency procedures

- Keep unauthorized personnel away.
- Ventilate area until material pick up is complete.
- Wear proper protective equipment.

Environmental precautions

- Prevent spills from entering sewers, watercourses, low areas or rivers. To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for containment and cleaning up

- Liquid: Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.
- Solid: Sweep up, place in a bag and hold for waste disposal.

Preventive measures for secondary accident

- Collect spillage.

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**Section 7. Handling and storage**

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

- Do not breathe dust/fume/gas/mist/vapors/spray.

(Protective measures against fire and explosion)

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

(Exhaust/ventilator)

- Exhaust/ventilator should be available.

(Safety treatments)

- Avoid contact with skin.
- Avoid contact with eyes.

Safety Measures

- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash hands et al thoroughly after handling.
- When using do not eat, drink or smoke.

Any incompatibilities

- See "10.Stability and Reactivity".

Storage

Conditions for safe storage

- Keep container tightly closed.
- Store in a cool, dry place. Do not store in direct sunlight.
- Storage in accordance with local/national regulation.

Container and packaging materials for safe handling

- Use closed unbreakable containers.

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**Section 8. Exposure controls/personal protection**

Control parameters

Administrative Control Levels and Concentration standard value

Not established

Exposure controls

**Appropriate engineering controls**

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

**Individual protection measures**

Recommend to use protective equipment in conformity with the standards.

Use appropriate protective equipment in accordance with local/national regulation.

**Respiratory protection**

Wear respiratory protection (dust-proof mask/gas mask). Select chemical cartridge corresponding to type of gases when using a gas mask.

**Hand protection**

Wear impervious protective glove.

**Eye protection**

Wear eye/face protection. Wear safety goggles in cases gas is generated.

**Skin and body protection**

Wear protective clothing.

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**Section 9. Physical and Chemical Properties****Information on basic physical and chemical properties**

Physical state: Liquid

Color: Colorless, Clear

Odor data is not available.

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH data is not available.

Kinematic viscosity data is not available.

**Solubility:**

Solubility in water: Soluble

Solubility in solvent data is not available.

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Density and/or relative density: 1.06

Relative vapor density (Air=1) data is not available.

Particle characteristics data is not available.

**Other information**

Other information is not available.

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**Section 10. Stability and Reactivity****Reactivity**

Not available.

**Chemical stability**

Stable under normal storage/handling conditions.

**Possibility of hazardous reactions**

(Sodium dodecyl sulfate)

Decomposes on burning. This produces toxic and corrosive gases including sulfur oxides.

Reacts with strong oxidants and strong acids. (ICSC 0502)

**Conditions to avoid**

Contact with incompatible materials.

Contact with fire source.

**Incompatible materials**

Strong acids, Strong oxidizing agents

**Hazardous decomposition products**

Carbon oxides, Nitrogen oxides, Sulfur oxides

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**Section 11. Toxicological Information****Information on toxicological effects****Acute toxicity****Acute toxicity (Oral)**

[Data for components of the product]

[NITE-CHRIP]

(Sodium dodecyl sulfate)

rat LD50: 1200 mg/kg (OECD TG 401, GLP) (source: NITE)

[Company proprietary data]

(2-Amino-2-hydroxymethyl-1,3-propanediol)

rat LD50=5900 mg/kg

**Acute toxicity (Dermal)**

[Data for components of the product]

[NITE-CHRIP]

(Sodium dodecyl sulfate)

rabbit LD50: ca. 200 mg/kg (source: NITE)

**Irritant properties****Skin corrosion/irritation**

[Data for components of the product]

[NITE-CHRIP]

(Sodium dodecyl sulfate)

Category 2 (source: NITE)

**Serious eye damage/irritation**

[Data for components of the product]

[NITE-CHRIP]

(Sodium dodecyl sulfate)

Category 1 (source: NITE)

Allergenic and sensitizing effects data is not available.

Mutagenic effects data is not available.

Carcinogenic effects data is not available.

Reproductive toxicity data is not available.

**Specific target organ toxicity (STOT)**

STOT-single exposure data is not available.

STOT-repeated exposure data is not available.

Aspiration hazard data is not available.



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**Section 12. Ecological Information**

## Toxicity

## Aquatic toxicity

## [Product]

Category 3, Harmful to aquatic life

## [Data for components of the product]

Hazardous to the aquatic environment, short-term (acute)

## [NITE-CHRIP]

(Sodium dodecyl sulfate)

Crustacea (*Acartia tonsa*) 96-hour EC50/LC50: 0.12 mg/L (source: NITE)

Hazardous to the aquatic environment, long-term (chronic)

## [NITE-CHRIP]

(Sodium dodecyl sulfate)

Crustacea (*Ceriodaphnia dubia*) 7-day NOEC (reproduction): 0.88 mg/L (source: NITE)

## Water solubility

(Sodium dodecyl sulfate)

15 g/100 mL (20°C) (source: ICSC, 2008)

## Persistence and degradability

## [Data for components of the product]

(Sodium dodecyl sulfate)

Rapidly degradable (Degradation rate: 85% (by BOD); 99.3% (by TOC)) (source: NITE)

## Bioaccumulative potential

## [Data for components of the product]

(Sodium dodecyl sulfate)

log Pow: 1.6 (source: ICSC, 2008)

## Mobility in soil

Mobility in soil data is not available.

## Other adverse effects

Ozone depleting chemical data is not available.

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**Section 13. Disposal considerations**

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

## Waste treatment methods

Avoid release to the environment.

Dispose of contents/container as industrial waste. Accordance with local/national regulation.

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**Section 14. Transport Information**

UN Number or ID Number : Not regulated

## IMDG Code (International Maritime Dangerous Goods Regulations)

UN Number or ID Number : Not regulated

## IATA (Dangerous Goods Regulations)

UN Number or ID Number : Not regulated

## Environmental hazards

Marine pollutants (yes/no) : no



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**Section 15. Regulatory Information**

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

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

Glycine; 2-Amino-2-hydroxymethyl-1,3-propanediol; Sodium dodecyl sulfate; Water

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

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**Section 16. Other information**

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 23rd edit., 2023 UN

IMDG Code, 2024 Edition (Incorporating Amendment 42-24)

IATA Dangerous Goods Regulations (66th Edition) 2025

2024 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2025 TLVs and BEIs. (ACGIH)

JIS Z 7252 : 2019

JIS Z 7253 : 2019

2024 Recommendation on TLVs (JSOH)

Supplier's data/information

General Disclaimer

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Unauthorized translation or modification is prohibited.

Please provide SDS to customers for selling or transferring.

All chemicals have unknown hazard. Handle the product with care.

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

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

The GHS classification data given here is based on current Data published in Japan (National Institute of Technology and Evaluation (NITE) Chemical Risk Information Platform (NITE-CHRIP), up to FY2023).