Safety Data Sheet

Section 1: Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation
Trade name: DNA-1000 Marker solution
P/N: 292-27915-92

Use of the substance/preparation
This product is for analytical research use only. Not applicable for clinical and/or diagnostic purposes.

Company/undertaking identification
Company name: Shimadzu Corporation
Address: 1 Nishinokyo-Kuwabaracho, Nakagyo-ku, Kyoto 604-8511, Japan
Section in charge: Clinical & Biotechnology Business Unit, Life Science Business Department
URL: http://www.shimadzu-biotech.net
Emergency telephone TEL: +81-75-823-1351
FAX: +81-75-823-1364

Section 2: Hazards Identification

No classification assigned.

Most important adverse physicochemical, human health and environmental effects and symptoms:
No information available.

Other significant adverse health and environmental effects:
No information available.

GHS classification: Not applicable for the classification standard.
NFPA ratings (Scale 0-4): Health=0, Fire=0, Reactivity=0

Section 3: Composition/information of ingredients

Distinction of component Preparations
General description: Buffer solution including boric acid, and EDTA
Substances: Boric acid: EINECS/ELINCs No. 233-139-2, CAS No. 10043-35-3 <1%
EDTA: EINECS/ELINCs No. 205-358-3, CAS No. 6381-92-6 <1%
Symbol letters and R phrases: Boric acid: Xn (Harmful), R21/22-R36/37/38
EDTA: Xn (Harmful), R22-R36/37/38

Section 4: First aid measures

Inhalation: Remove to uncontaminated area and supply fresh air. Promptly consult doctor, if needed.
Skin contact: Take off contaminated clothing and wash skin with plenty of water.
Eye contact: Flush eyes with plenty of water for at least 15 minutes, and obtain medical attention.
Ingestion: Drink plenty of water to induce vomiting, and obtain medical attention.

Section 5: Fire-fighting measures

Fire extinguishing method: In case of fire in the surrounding area, promptly move the container to a safe place.
Extinguishing media: Water, carbon dioxide, extinguishing powder and foam
Protective equipment: No special measures required.

Section 6: Accidental release measures

Personal precautions: No specific consideration is necessary.
Environmental precautions: Absorb as much of the material as possible with sand, universal binder, or sawdust and collect in appropriate container to disposal. Then, clean the spill site with plenty of water.

Section 7: Handling and storage

Handling: Wear personal protective equipment in order to prevent inhalation and the product from conducting eyes or skin.
Storage: Avoid exposure to direct sunlight. Keep bottle closed with cap to prevent evaporation and contamination. Store at -20°C.
Section 8: Exposure controls/personal protection

| Exposure limits: | No occupational exposure limit values and/or biological limit values are established. |
| Permitted concentration: | Japan Society for Occupational Health: Not established |
| | ACGIH (TWA/STEL): Not established |
| Respiratory protection: | Not required |
| Eye protection: | Wear tightly sealed goggles. Provide an emergency eye wash fountain. |
| Protective gloves: | Wear appropriate chemical resistant gloves. |

Section 9: Physical and chemical properties

| Physical state: | Appearance: Colorless, transparent, odorless liquid |
| Boiling point: | approx. 100ºC, Freezing point: Not available. |
| Flash point: | No data available. |
| Auto ignition: | Not applicable. (The product does not combust spontaneously.) |
| Explosive properties: | Not applicable. (The product has no risk of explosion.) |
| Vapor pressure: | Not available. |
| Water solubility: | Soluble |
| pH: | 8.1 at 20ºC |

Section 10: Stability and reactivity

| Stability: | Stable at normal temperature and pressure. |
| Reactivity: | No risk of hazardous reaction. |
| Conditions/Materials to avoid: | Oxidizing substances |
| Hazardous decomposition products: | None (Will not polymerize) |

Section 11: Toxicological information

No data available for the formulation.

Additional toxicological information on the components of this product:

Boric acid:
- Irritation data: 10% solution cause minor irritation to the skin (24-72 hours)
- Toxicity data: Oral LD50=2,660 to 5,140 mg/kg (rat)
- Irritating effect to the eyes

Section 12: Ecological information

Eco-toxicity, mobility, persistence and degradability, bioaccumulation potential: No data available for the formulations.

Section 13: Disposal considerations

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

Section 14: Transport information

Prior to transport, make sure no leakage is observed from the bottle and stow a cargo without dropping and turning over.

UN number, class, proper shipping name, packing group, marine pollutant: Not applicable.

US DOT, IMDG (sea), ADR/RID (land), ICAO/IATA (air): No classification assigned.

Section 15: Regulatory information

U.S. TSCA Inventory: Yes, SARA listed: No

Section 16: Other information

References
2) European Chemical Bureau: Classification & Labeling; http://ecb.jrc.it/classification-labelling/

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