



OmniMARK 1K DNA Ladder RTU

Identification of the product / Substance and of the company

Product Name : OmniMARK 1K DNA Ladder RTU

Catalog Number : DMF13-0100

Use of the product : For laboratory use.

Suitable as the stain for preparing DNA ladders and samples for loading on the agarose or polyacrylamide gels.

Company identification : BIO-HELIX Co.,LTD.

Site: [http : //www.bio-helix.com](http://www.bio-helix.com)

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Composition / Information on ingredients

Ingredients :

Dimethylsulfoxide	<0.01% (v/v)	CAS# 67-68-5
Glycerol	> 50% (v/v)	CAS# 56-81-5
Water	>45% (v/v)	CAS#7732-18-5

Other components :

Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1999/45/EC.

Hazards identification

Hazards deriving from physical-chemical properties :

Components of the product may be absorbed into the body through the skin.

Human health hazards :

May be irritating to the eyes and respiratory tract. Components of the product may be absorbed into the body through the skin. Harm may be caused to the digestive tract if swallowed. Caution: Avoid inhalation, ingestion, and skin contacts.

Environmental hazards: : The data available do not support any environmental hazard.

First Aid Measures

Ingestion :

If swallowed, rinse mouth and throat thoroughly with water. Consult a doctor in the event of any complaints.

Inhalation :

If inhaled, remove victim from area of exposure. If symptoms of irritation or respiratory allergy occur, consult a doctor.



Skin contact :

Wash immediately and thoroughly with plenty of water.

Eye contact :

In case of contact, wash immediately and thoroughly with plenty of water. Consult a doctor in the event of any complaint.

Fire-fighting measures

The product cannot cause fire.

Suitable extinguishing agents :

Water spray, carbon dioxide, dry chemical powder or appropriate foam.

Not suitable extinguishing agents : None.

Special exposure hazards from decomposition products : Not thoroughly investigated.

Protective equipment : Wear self-contained breathing apparatus and protective clothing.

Accidental release measures

Personal precautions :

Wear appropriate gloves (see Section 8), safety glasses to clean small releases/spillage. Avoid contact with skin and eyes. In case of vapor/aerosol formation, wear suitable respiratory protection means. Ventilate the area.

Environmental precautions : No special measures required.

Methods for cleaning up :

Absorb spillages with liquid-binding material. Ventilate and wash the area after the spillage is completely removed.

Additional information : No dangerous substances are released.

Handling and storage

Handling : No further requirements. Keep in properly labeled containers.

Use appropriate personal protection measures (see Section 8). Avoid any contact with the liquid. Avoid the formation of aerosols. Ventilate area.

Storage :

Stable for up to 6 months at 25°C.

Stable for up to 12 months at 4°C.

Stable for up to 24 months at -20°C.

Exposure controls / personal protection

Ingredients with limit values that require monitoring at the workplace :

The product does not contain any relevant quantities of materials with critical values that need to be monitored at the workplace.



General protective and hygienic measures :

The usual precautionary measures are the same as for chemicals handling.

Engineering measures: Ensure adequate ventilation, especially in the confined areas.

Personal protection :

- Respiratory protection : Wear suitable respiratory equipment.
- Hand protection : Wear rubber gloves. No special requirements for the rubber gloves.
- Eye protection : Safety glasses are recommended.
- Skin protection : The usual precautionary measures accepted in research laboratories, e.g. protective clothes (gowns). No specific requirements.

Physical and chemical properties

Appearance : Liquid.

Color : Blue.

Odor : Odorless.

pH-value at 25°C : Not Applicable

Boiling point : 190°C.

Flash Point : 95°C.

Flammability/auto-flammability : The product is not flammable/self-igniting. Explosive properties: The product does not possess explosive properties.

Oxidizing properties : Not applicable.

Vapor pressure : Not applicable.

Solubility in/miscibility with water : Fully miscible.

Fat solubility : Not applicable.

Vapor density : Not applicable.

Evaporation rate : Not applicable.

Conductivity : Not applicable.

Viscosity : Not viscous.

Stability and reactivity

Stability : Stable under storage conditions (see Section 7).

Conditions to avoid : No conditions which may cause dangerous reactions.

Possibility of hazardous reactions : No dangerous reactions known.

Materials to avoid : No materials which may cause dangerous reactions.

Hazardous decomposition products : No dangerous decomposition products known. Hazardous polymerization:



Toxicological information

Will not occur.

Routes of exposure :

Inhalation: Inhalation of aerosols may cause allergic type reactions in sensitized individuals.

Ingestion: Repeated ingestion or excessive dosage may cause irritation of the gastrointestinal tract.

Skin and eye contact: May be irritating the skin and eyes. Avoid direct contact if possible.

Additional toxicological information :

When used and handled according to specifications, the product does not have any harmful effects.

The product is not listed in a priority list as foreseen under Council Regulation (EEC)

Ecological information

Ecotoxicity :

The product is considered not dangerous to the environment with respect to mobility, persistence and degradability, bioaccumulation, aquatic toxicity and other data relating to ecotoxicity.

Persistence and degradability : The product is readily biodegradable.

Bioaccumulative potential :

It is considered that the product does not accumulate in biota, and does not pass through the food chain.

Other adverse effects : Not applicable.

Disposal considerations

The disposal of the product does not present a danger.

No special disposal methods required, except to be in accordance with current local environmental regulations.

Transport information

Special precautions : None known.

Proper shipping name : Not dangerous goods according to transport regulations.

National transport regulations :

No additional national transport regulations are known to the supplier.

IMDG : Non-hazardous for sea freight.

ADR : Non-hazardous for road transport.

RID : Non-hazardous for rail transport.

ICAO/IATA : Non-hazardous for air transport.

Other information : The product may be stored in ice during the transportation.



Regulatory information

US

Labeling according to US Regulations: Caution : Avoid contact and inhalation.

US Regulatory information : Not Regulated by SARA.

Also Listed in TSCA, PICCS, ENCS, DSL, and AICS.

Other information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Bio-Helix Co., Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.