



Trade Name: MiniOne® DNA Size Markers

M S D S

Revision Date: June 25th, 2020

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Code: M3104, M3116, M3117, M3144, M3145
Trade Name: MiniOne® DNA Size Markers
Chemical Name:
Synonym: DNA Markers, DNA Ladders, DNA Standards

Company Identification: Embi Tec or The MiniOne Systems
7738 Arjons Drive
San Diego, CA 92126
USA
858-684-3190

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous/Non-hazardous Components: This product contains small amount of TRIS, EDTA, Orange G &/or Xylene Cyanol dyes as well as PCR fragments.
Overall, this product contains no substances which at their given concentration, are considered to be hazardous to health.

SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview: May cause sensitization by skin contact. An eye irritant.

Potential Health Effects:

- Eyes** Direct contact can cause eye irritation including redness, tearing & pain.
- Skin** May cause mild irritation in susceptible persons
- Ingestion** May cause gastrointestinal irritation, nausea & discomfort

SECTION 4: FIRST AID MEASURES

Skin contact: Wash off immediately with plenty of water
Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
Ingestion: Get medical attention immediately; never give anything by mouth to an unconscious person
Inhalation: Move to fresh air
Notes To physician: Treat symptomatically

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical
Special Protective Equipment for Firefighters: Wear self-contained breathing apparatus and protective suit



Trade Name: MiniOne® DNA Size Markers

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment
Methods for Cleaning Up: Soak up with inert absorbent material, if needed

SECTION 7: HANDLING AND STORAGE

Handling: No special handling advice required
Storage: Keep in properly labeled containers. Stored at -20 to 25°C (recommended).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit Values: None established
Exposure Controls: Use process enclosures, local exhaust ventilation, or other engineering controls as needed
Respiratory Protection: Use an approved air-purifying respirator as needed
Eye/Face Protection: Use safety glasses or chemical goggles
Skin/Hand Protection: Use chemical gloves as needed. Wear lightweight protective clothing
Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice
Environmental Exposure Controls: Prevent product from entering drains

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dark green colored liquid
Odor: None
Flash Point: Data not available
Viscosity: Data not available
Solubility: Aqueous solution
Density: Data not available
Boiling Point: Data not available
Melting Point: 100 °C
pH: Data not available

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable
Materials To Avoid: No information available
Hazardous Decomposition Products: No information available
Polymerization: Hazardous polymerization does not occur

SECTION 11: TOXICOLOGICAL INFORMATION

TRIS: Oral LD50 for rat is 5900 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Eco toxicity: No information available
Mobility: No information available
Biodegradation: Inherently biodegradable



Trade Name: MiniOne® DNA Size Markers

Bioaccumulation: Does not bioaccumulate

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations

SECTION 14: TRANSPORT INFORMATION

IATA Proper Shipping Name: Not classified as dangerous in the meaning of transport regulations

IATA Hazard Class: Not classified as hazardous for transport

SECTION 15: REGULATORY INFORMATION

US Federal Regulations:

SARA 313 Toxic Chemicals

This product is not regulated by SARA

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

US State Regulations:

This product does not contain chemicals listed under California Proposition 65.

EU Regulations:

This preparation does not meet the dangerous preparations classification criteria under 1999/45/EC. Components are listed on EINECS or exempted from listing.

Canadian Regulations:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and contains the information required by the CPR.

This product is classified as "non-controlled" under the WHMIS Hazard Class.

SECTION 16: OTHER INFORMATION

NFPA/HMIS Ratings: Health = 1; Fire = 0; Reactivity = 0, NFPA/Special = None

This product is sold for educational, research and/or development purposes only. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may be present unknown hazards and should be used with caution. Since Embi Tec and The MiniOne Systems cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

End of Material Safety Data Sheet