Material Safety Data Sheet

RNase-Free DNase I Set

Prepared in accordance with EU directive 91/155/EEC

Revision date: 2022/05/11

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Commercial Product name:	RNase-Free DNase I Set
Product number:	DN036, DN096.
Intended use:	Biochemical kit

Supplier: RBC Bioscience Corp.
15F., No. 15, Ciaohe Rd., Zhonghe Dist., New Taipei City 235029 , Taiwan
Phone Number: +886-2-8912-1200
Emergency telephone number: +886-2-8912-1200

2. CHEMICAL CHARACTERISATION

Component 1:

RNase-Free DNase I (Lyophilized): White powder, Boiling point: NA, Flash point: NA.

Component 2:

RNase-Free Water: pH: 7.0, Boiling point: 100°C, Flash point: NA.
Ingredients 100% double distilled water.

Component 3:

DNase I Reaction Buffer: pH: 7.4, Boiling point: 100°C, Flash point: NA.
Ingredients 2.5% Tris-HCl (CAS-No. 1185-53-1); 97.5% distilled water.

3. HAZARDS IDENTIFICALTION

********** EMERGENCY OVERVIEW **********

Component 1 – Occupational exposure presents little or no health hazard.
Component 2, and 3 – No hazardous substances in concentrations to be declared..

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Potential Health Effects:

Eye: Can cause minor irritation, tearing and reddening, but not likely to permanently injure eye tissue.

Skin: Generally no skin irritation, defecting, and dermatitis. Not likely to cause permanent damage.

Inhalation: Generally no respiratory irritation, dizziness, weakness, fatigue, nausea, and headache. No toxicity expected from inhalation.

Ingestion: Generally no irritating to mouth, throat, and stomach. Can cause abdominal discomfort.

Chronic: No data on cancer.

4. FIRST AID MEASURES

Eye: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.
Skin: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists
Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.
Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this MSDS.
Flash Point and Method: N/A
Erode character: No information available.
Note To Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURE

Flashpoint Deg C: Not available.
Upper Flammable Limit %: Not available.
Lower Flammable Limit %: Not available.
Auto-ignition Temperature Deg C: Not available.
Extinguishing Media: Use means appropriate for surrounding materials.
Firefighting Techniques/Equipment: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors
Hazardous Combustion Products: Includes carbon dioxide, carbon monoxide, and dense smoke.

6. ACCIDENTAL RELEASE MEASURES

Accidental releases may be subject to special reporting requirements and other regulatory mandates. Refer to Section 8 for personal protection equipment recommendations.
Spill Cleanup: Absorb spill. Common absorbent materials should be effective. Deposit in appropriate containers for removal and disposal.

7. HANDLING AND STORAGE

Storage of some materials is regulated by federal, state, and/ or local laws.
Storage Pressure: Ambient
Handling Procedures: Keep closed or covered when not in use.
Storage Procedures: Should be storage at -20°C areas.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Drinking, and when leaving work. Have a safety shower available
Respiratory: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/physical state: Liquid solution / suspension
Order: No odor.
Specific Gravity/Density: Not established.
Octanol/water Partition Coeff: Not established.
Volatiles: Not established.
Evaporation Rate: Not established.
Viscosity: Not established.

10. STABILITY AND REACTIVITY

Stable under normal conditions.
Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.
Dangerous reactions: No dangerous reactions known.
Dangerous decomposition products: No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

No toxic, no infectious, no corrosive material inside.
Not applied to IATA DGR
Proper Shipping Name: Not determined.
Subsidiary Hazards: Not determined.

12. Ecological Information

Eco-toxicological Information: No ecological information available.
Environmental Fate (Degradation, Transformation, and Persistence): Bio-concentration is not expected to occur.

13. DISPOSAL CONSIDERATIONS

Regulatory Information: Not applicable.
Disposal Method: Clean up and dispose of waste in accordance with all federal, state, and or local environmental.

14. TRANSPORT INFORMATION

No toxic, no infectious, no corrosive material inside.
Not applied to IATA DGR
Proper Shipping Name: Not determined.
Subsidiary Hazards: Not determined.

15. OTHER INFORMATION

WHMIS Rating 0-4:
FIRE:0.
HEALTH: 2.
REACTIVITY: 0
Abbreviations
N/A - Data is not applicable or not available
SARA - Superfund and Reauthorization Act
HMIS - Hazard Material Information System
WHMIS - Workplace Hazard Materials Information System
NTP - National Toxicology Program
OSHA - Occupational Health and Safety Administration
IARC - International Agency for Research on Cancer
PROP 65 - California Safe Drinking Water and Toxic Enforcement Act of 1986
EINECS - European Inventory of Existing Commercial Chemical Substances

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Fermentas is not held liable for any damage resulting from handling or from contact with the above mentioned products.
MSDS has been prepared in accordance with EU directives 67/548/EEC, 91/155/EEC and other European Union legislation in force.