



**Material Safety Data Sheet  
Macerozyme R10**

**SECTION 1: PRODUCT IDENTITY**

**Product Name:** Macerozyme R10

**Trade Names:** Not applicable

**Product Codes:** 6152

**CAS No. :** 9032-75-1

**SECTION 2: Composition Component**

**Single Material or Mixture:** Mixture

**Chemical Name:** Pectinaze

**Component & Content:** Pectinaze (Enzyme) 18%, Lactose 82%

**Chemical Property:** Preparation of Pectinaze purified from Nutrient medium of Rhizopus sp, which separates insoluble matter (fungal forms etc.).

**Serial Number of Official Gazettes:** 11-(2)-73

**SECTION 3: A Dangerous Noxious Abstract**

**Most Important Harmful Effect:** Does not fall under a dangerous noxious classification standard

**Harmful Effect:** Causing sensitivity

**Environmental Impact:** Water pollution

**Specific Danger Hazardous Property:** Unavailable

**SECTION 4: Emergency Treatment**

**When Inhaled It:** Move to the place where the air is fresh promptly and keep rest and gargle with water well.

**When Stuck to Skin:** Wash the part where came into contact with water well.

**When Caught in the Eyes:** Wash your eyes with water promptly more than 15 minutes. When you use contact lens, remove it and wash eyes. In addition, you must not use hot water to wash eyes.

**When Swallowed It:** Rinse mouth and throat with water. After the above-mentioned step, receive treatment from a doctor if necessary.

**SECTION 5: Instruction if Fire Occurs**

**Extinguishing Medium:** Extinguish with water, powder, carbon dioxide gas, or foam

**The Protection of Person Extinguishing a Fire:** Perform fire extinguishing work from windward and wear a tool for protection.

**SECTION 6: Instruction of Leak Out**

**Instruction to Health Hazard:** -In the room adequately ventilate until clean up -While working wear a mask & gloves for protection for product not to touch skin or inhale it

**Instruction to the Environment:** Be careful not to flow out into the environment without the product, which leaked, or washing drainage being handled adequately.

**The Preventive Measures Against Second Pollution:** Prevent scattering to the outside of the product which has leaked.

**SECTION 7: The Handling and Attention in Safekeeping**

**Handling:** Technical measures-Wear a tool for protection if necessary

**Safekeeping:** Appropriate safekeeping conditions-Seal up container and keep it in a place less than 20 C.

**Safe Container Wrapping:** Impermeable container that you are able to seal up

**SECTION 8: Prevention of Revelation and a Protection Step**

**Permission Density:** Management Density- There is no standard

Nihon Sangyo Hygiene Society- There is no standard

ACGH- There is no standard

**Tool for Protection:** Breathing Ingeniousness- Dust protective mask

Manual Protection- Non-penetration gloves

Protection of Eyes-Goggles

Skin and Tools for Physical Protection- Working clothes

**Appropriate Hygiene Measure:** Dispose of the tool for polluted protection or after work wash it. -Near handling place, have facilities for washing eyes and hands

**SECTION 9: Physics and Chemical Property**

**Appearance:** Powder

**pH:** Dose not fall

**Solubility:** Soluble in water well

**SECTION 10: Stability and Reactivity**

**Stability:** Stable in normal save condition

**Reactivity:** Causes a dust explosion when pneumatic transportation in large quantities

**SECTION 11: Noxious Information**

**Acute Toxicity:** There is no toxicity

**Original Variation Characteristics:** Unavailable

**A Local Effect:** Eyes and contact with skin, inflammation is caused

**Sensitization Characteristics:** If a sensitive person inhales dust repeatedly, allergic reaction or an asthma attack may be caused

**SECTION 12: Environmental Influence Information**

**Mobility:** Move to water and soil environment

**Residual Property/Resolvability:** Biodegradability

**SECTION 13: Attention in the Disposal**

Handle it after the dissolution in destruction by fire the water in the appropriate amount in a drainage processing institution

**SECTION 14: Attention in Transportation**

**International regulation:** Evaluate in United Nations Standard and do not file under dangerous materials

**SECTION 15: Application Laws and Ordinances**

The Food Sanitation Law

**SECTION 16: OTHER INFORMATION**

*To the best of our knowledge (Desert Biologicals), the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.-  
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