



**Material Safety Data Sheet
Cellulase RS**

SECTION 1: PRODUCT IDENTITY

Product Name: Cellulase RS
Trade Names: Not applicable
Product Codes: 2019
CAS No. : 9032-75-1

SECTION 2: Composition Component

Single Material or Mixture: Mixture
Chemical Name: Cellulase
Component & Content: Cellulase (Enzyme) 100%
Chemical Property: Preparation of Cellulase purified from Nutrient medium of Trichoderma Reesei, which separates insoluble matter (fungal forms etc.).
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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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