

## MSDS Agarose

### 1-. IDENTITY OF THE SUBSTANCE AND THE MANUFACTURER

#### 1.1. Name of the substance or preparation

AGAROSE

#### 1.2. Use of the substance or preparation

Laboratory use for analysis and research.

#### 1.3. Name and address of the manufacturer

Nippon Genetics Europe GmbH; Mariaweilerstraße 28-30; 52349 Düren; Germany

#### 1.4. Emergency telephone contact

Nippon Genetics Europe GmbH +492421554960

### 2-. COMPOSITION/INFORMATION ABOUT THE COMPONENTS

Name of product: AGAROSE

Chemical composition: Linear polymer formed of repeating units of D-galactose and 3,6 anhydro-L-galactose with alternate 1,4 and 1,3 bonds.

CAS N°: 9012-36-6; EINECS N°: 232-731-8

### 3-. HAZARDS

This material is not considered hazardous to health pursuant to directive 67/548/CEE, but should only be used in association with suitable hygiene and safety practices.

### 4-. FIRST AID

Inhalation: Remove to fresh air. If there are problems seek medical assistance.

Skin contact: Wash with excess water. If irritation is persistent, seek medical assistance.

Eye contact: Wash copiously with water for up to 15 minutes. If there is persistent irritation, seek medical assistance.

Ingestion: If there is abdominal discomfort, seek medical assistance.

### 5-. IN CASE OF FIRE

#### 5.1. Appropriate methods of extinguishing

For fires concerning this material, do not enter or allow anyone to enter any enclosed area without proper breathing equipment. To extinguish the fire, use water, CO<sub>2</sub>, etc. Do not release dangerous substances upon burning.

#### 5.2. Extinguishing agents that should not be used

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#### 5.3. Special dangers

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#### 5.4. Special protection equipment

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### 6 - . IN CASE OF SPILLAGE

#### 6.1. Personal precautions

Avoid inhaling the powder. Use respiratory protection if there is a lot of dust.

#### 6.2. Ambient precautions

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#### 6.3. Cleaning methods

Take practical precautions to limit the amount of dust. Sweep up spilt powder.

### 7-. HANDLING AND STORAGE

#### 7.1. Handling

Avoid creating dust. Avoid tearing bags.

#### 7.2. Storage

Keep storage areas dry to protect product quality.

#### 7.3. Special instructions

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## 8- EXPOSURE CONTROLS AND PROTECTION

### 8.1. Exposure limit

Not known

### 8.2. Exposure control

#### 8.2.1. Workplace exposure controls

##### 8.2.1.1. Respiratory protection

No significant risk. If there is an excessive accumulation of powder, use respiratory protection equipment.

##### 8.2.1.2. Hand protection

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##### 8.2.1.3. Eye protection

Use appropriate eye protection; use goggles to prevent contact.

##### 8.2.1.4. Skin protection

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#### 8.2.2. Measures to control the atmosphere

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## 9- PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. General information

Physical form: Powder; Colour: White; Odour: Faint marine smell

### 9.2. Important information for health, safety and atmosphere

pH: 5.5 – 8.0 in 1 % solution; Boiling Point: Not applicable; Ignition Point: Not applicable

Flammability: Not applicable; Explosive Properties: Not applicable; Combustion Properties: Not applicable;

Vapour Pressure: Not applicable; Relative Density: Not applicable; Water Solubility: 5 % maximum by weight

Coefficient of Distribution: n-octane/water: Not applicable

Viscosity: Not applicable; Vapour Density: Not applicable; Evaporation rate: Not applicable

### 9.3. Other information

Density: approximately 0.5 g/cm<sup>3</sup>

## 10- STABILITY AND REACTIVITY

### 10.1. Conditions to be avoided

No risk if used for specified purpose.

### 10.2. Materials to avoid

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### 10.3. Hazardous breakdown products

None

## 11- TOXICOLOGICAL INFORMATION

Not hazardous, even at high levels, for inhalation, skin contact, skin absorption or ingestion. Not hazardous in contact with the eyes but at high exposure may cause irritation. High concentration of the powder in the workspace may seriously reduce visibility and cause dust to settle in the eyes and nasal passages.

## 12- ECOLOGICAL INFORMATION

If handled correctly there are no ecological problems.

## 13- DISPOSAL CONDITIONS

No special requirements. It is the responsibility of the user to observe all laws, rules and regulations, whether local, regional or national.

## 14- TRANSPORT INFORMATION

Not considered a hazardous material.

## 15- REGULATORY INFORMATION

According to European standards, not classified as hazardous.

## 16- OTHER INFORMATION

This information is based on our present knowledge. Its objective is to describe the product from the point of view of safety, and no warranty is made other than its characteristics. This information does not absolve the user in any circumstances from observing other legislative, regulatory and administrative requirements applying to the product, and to safety, hygiene and the well-being of the people in the workplace.

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