

# Internal Safety Data Sheet

Merck Chimie S.A.S.

According to the directive 91/155/CEE

<b>Commercial name:</b> ESTAPOR – functionalised calibrated latex particles, fluorescent grades	<b>Page</b> 1/6
<b>Raw material number:</b> - <b>Version number:</b> 1	<b>Updated:</b> 12/01/2006

## 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION :

COMMERCIAL NAME : ESTAPOR – FUNCTIONALISED CALIBRATED LATEX PARTICLES, FLUORESCENT GRADES

RAW MATERIAL NUMBER : -

SUPPLIER : MERCK CHIMIE S.A.S.

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## 2- COMPOSITION / INFORMATION ON INGREDIENTS :

SUBSTANCE

**Chemical name :** poly(styrene-copolymers) latex fluorescent functionalised particles

**Synonym :**

**CAS NUMBER :** none

**EINECS NUMBER :** none

**Components or impurities contributing to hazard :** poly(styrene-copolymers) / fluorescent indicator

PREPARATION

**Chemical nature :** water suspension of copolymer beads with fluorescent indicator

Name of the components or impurities contributing to hazard	Range/Conc.	Classification	R phrases
Water , CAS# 7732-18-5	≥99%	-	-
poly(styrene-copolymers) beads with fluorescent indicator	≤1%	-	-
fluorescent indicator	<0,01%	-	-
Surfactant (if any, proprietary)	<0,06%	-	-
Preservative (if any, proprietary)	<0,1%	-	-

NOTE : fluorescent indicators are encapsulated within the beads, and their concentrations are less than the consideration limits for a biological activity according the European regulations

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### 3- HAZARDS IDENTIFICATION

#### **Main hazards for humans : do not use IN VIVO**

**Harmful effects on health :** not toxic product; possible irritant to eyes; possible risk of serious damage to eyes for latex type A1, B1 and B7 because of their capacities to create a film when the product is in thin layer.

↳ **main symptoms :**

**Effects on the environment :** slightly biodegradable

**Physical and chemical hazards :** no dangerous reaction known with the usual products

↳ **classification and labelling (precise the labelling and classification system) :** none

**Specific risks :** not classified

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated

### 4- FIRST AID MEASURES

#### **Exposition ways :**

- **Inhalation :** not concerned

- **Contact with skin :** wash with soap and water

- **Contact with eyes :** rinse immediately with plenty of water. If an irritation appears, seek medical advice.

- **Ingestion :** rinse mouth with water. Seek medical attention.

**Description of the symptoms and their most important effects :** no special instructions according to available information

**Personal safety protections :** plastic or rubber gloves and safety glasses

**Instructions for the doctor :** no specific instruction. Give him this safety data sheet.

### 5- FIRE FIGHTING MEASURES

**Extinction measures :** not concerned. Not considered flammable or explosive. Use extinguishing media appropriate to the surrounding fire conditions.

↳ **Specific hazards :** not concerned

**Extinguishing tools inadvisable :** not concerned

**Specific methods :** not concerned

**Protection equipment :** not concerned

### 6- ACCIDENTAL RELEASE MEASURES

**Personal precautions :** plastic or rubber gloves and safety glasses

**Precautions for environmental protection :** do not empty large quantities into natural environment – slightly biodegradable

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## Cleaning methods :

- ↳ **Recovery** : after mixing with some sand shovel up the product
- ↳ **Neutralisation** : not concerned
- ↳ **Elimination** : for large quantities, by usual licensed professional waste disposal service

## 7- HANDLING AND STORAGE

### HANDLING

#### Technical measures :

- ↳ **Prevention for the operator before exposure** : to wear plastic or rubber gloves and safety glasses
- ↳ **Fire and explosion prevention** : not concerned

**Precautions** : use the product between +4 and +96°C and at pH between 4 and 11

**Use advice** : do not use with organic solvents because these ones will remove the dye from the particles.

### STORAGE

**Technical measures** : protect from frost and keep stirring if particles' diameter > 0,5µm

#### Conditions :

- ↳ **Recommended** : between +4 and +8°C
- ↳ **To avoid** : temperature < +2°C

**Incompatibilities** : strong acids, strong bases and organic solvents

#### Materials for packing :

- ↳ **Recommended** : polyethylene, glass
- ↳ **Unsuitable** : none

## 8- EXPOSURE CONTROL / PERSONAL PROTECTION

**Technical measures** : Facilities utilizing this material should be equipped with an eyewash facility and a safety shower

#### Control Parameters

- ↳ **limits** : no available information
- ↳ **biological ratings (with reference and date)** : no available information

**Supervision procedures and reference** : no available information

#### Individual protection equipment

- ↳ **Respiratory protection** : none
- ↳ **Hand protection** : plastic or rubber gloves
- ↳ **Eye protection** : safety glasses
- ↳ **Body protection** : appropriate protection clothes (lab coat,...)

**Precautions (if the product is highly concentrated or in large quantities or at high temperature/pressure):**  
no specific instruction

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## Hygiene measures :

Do not eat and do not drink during usage of the product

Wash hands during breaks and at the end of the work

## 9- PHYSICAL AND CHEMICAL PROPERTIES

**Aspect :**

- appearance/physical state : emulsion at 20°C
- colour : depending on fluorescent indicator
- form : suspension
- odour : none

**pH :** between 4 and 11

### Specific temperatures :

- Boiling point : +100°C
- Decomposition temperature : +100°C
- Flash point : not concerned
- Ignition temperature : not concerned

**Explosion characteristics :** not explosive

**Steam pressure :** not concerned

**Density :** 1,05 g/mL at 20°C (suspension)

**Molecular weight :** not concerned

**Solubility in water :** miscible with water

**Solubility in solvents :**

### Other data :

Latex type A1, B1 and B7 : capacities to create a film when the product is in thin layer

## 10- STABILITY AND REACTIVITY

- **Stability :** pH between 4 and 11
- **Hazardous reactions :** no dangerous reaction known with the usual products
- **Conditions to avoid :** pH<4 and pH>11, using temperatures<+2°C and >+96°C
- **Incompatibility :** strong acids, strong bases and organic solvents. These ones will remove the dye from the particles.
- **Hazardous decomposition products :** not concerned

## 11- TOXICOLOGICAL INFORMATION

### High toxicity

- by ingestion : no available information
- by skin contact : none
- by inhalation : none

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**Local effects :** to the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated

**Sensibilisation :** none

**Chronic toxicity :** none

**Specific effects :**

- **Cancerogen :** none
- **Mutagen :** none
- **Reproduction toxicity :** none

not listed as a carcinogen by ACGIH, OSHA or IARC

## **12- ECOLOGICAL INFORMATION**

- **Mobility :** no available information
- **Persistence/degradability :** slightly biodegradable
- **Bioaccumulation :** no available information
- **Ecotoxicity :** no available information
- **Harmful effects :** no available information
- **Legal waste limits :**
  - ↳ **in the atmosphere :** no available information
  - ↳ **in surface waters (ex: rivers, lake...)** : no available information

## **13- DISPOSAL CONSIDERATION**

**Waste disposal :** Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state and local environmental regulations.

**Dirty packing disposal elimination :** Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state and local environmental regulations.

## **14- SHIPPING TRANSPORTS**

**International regulation :** polystyrene latex, code CPA : 39-0319-000 000A, not regulated

- rail/road (RID / ADR)
- inland waterway (RTMD / ADR)
- maritime (IMCO / IMDG)
- air (OACI-IT, IATA-DGR)
- ONU number

**Others regulations :** none

**Precaution measures and specific conditions for transport :** none

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## **15- REGLEMENTARY INFORMATION**

Regulation specifically applicable to the chemical product : none

EEC symbol : none

- Risk phrases :
- Safety phrases :
- Additional phrases : DO NOT USE IN VIVO
- French regulations :

## **16- OTHER INFORMATION**

RECOMMENDED USES :

RESTRICTED USES : employment restrictions concerning young persons must be observed

REQUIRED SPECIALISED TRAINING : for use only by technically qualified individuals

This sheet completes the technical sheet of use, it doesn't replace it. The information contained in this sheet is based on our knowledge of the product with the updating of this file. It is given quite sincerely. However the attention of the users is drawn on the risks possibly taken when the product is used for other utilisations than those which it is intended.

## **MSDS REVIEWING**

<b>Subject</b>	<b>Date</b>	<b>N°</b>	<b>Identification</b>
Creation	12/01/2006	1	ESTAPOR – functionalised calibrated latex particles, fluorescent grades