

# Internal Safety Data Sheet

Merck Chimie S.A.S.

According to the directive 91/155/CEE

<b>Commercial name: ESTAPOR – Dyed calibrated latex particles</b>	<b>Page 1/6</b>
<b>Raw material number: 90050</b>	<b>Updated: 12/01/2006</b>
<b>Version number: 2</b>	

## 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION :

COMMERCIAL NAME : ESTAPOR – DYED CALIBRATED LATEX PARTICLES  
RAW MATERIAL NUMBER : 90050  
SUPPLIER : MERCK CHIMIE S.A.S.  
ADDRESS : 201, rue Carnot – 94126 FONTENAY-SOUS-BOIS Cedex  
TELEPHONE NUMBER : (33) 1 45 14 85 00  
FAX : (33) 1 45 14 86 16  
ORFILA PHONE NUMBER FOR URGENT CALLS : INRS – TEL : (33) 1 45 42 59 59

## 2- COMPOSITION / INFORMATION ON INGREDIENTS :

SUBSTANCE

Chemical name : polystyrene latex dyed particles

Synonym :

CAS NUMBER : none

EINECS NUMBER : none

Components or impurities contributing to hazard : polystyrene / dying agent

PREPARATION

Chemical nature : water suspension of polystyrene beads with dying agent

Name of the components or impurities contributing to hazard	Range/Conc.	Classification	R phrases
Water , CAS# 7732-18-5	≥90%	-	-
Polystyrene beads (CAS# 9003-53-6) with dying agent	≤10%	-	-
Dying agent (anthraquinone, monoazoic or diazoic)	<1%	-	-
Surfactant (if any, proprietary)	<0,6%	-	-
Preservative (if any, proprietary)	<0,1%	-	-

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

NOTE : for the MSDS of the latex type K007 red C1 and K007 green E2, call us.

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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.

↳ 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

Extinguishing 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,...)

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

**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 dying agent
- **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 :** none

## **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
- TSCA : polystyrene (CAS# 9003-53-6) is listed in the TSCA inventory

## **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	01/10/2004	1	ESTAPOR – dyed calibrated latex particles
Modifications to respond to European regulation requirement	12/01/2006	2	ESTAPOR – dyed calibrated latex particles