

Internal Safety Data Sheet

Merck Chimie S.A.S.

According to the directive 91/155/CEE

Commercial name: ESTAPOR – Calibrated latex particles, fluorescent grades	Page 1/6
Raw material number: 90030	Updated: 12/01/2006
Version number: 2	

1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION :

COMMERCIAL NAME : ESTAPOR – CALIBRATED LATEX PARTICLES, FLUORESCENT GRADES

RAW MATERIAL NUMBER : 90030

SUPPLIER : MERCK CHIMIE S.A.S.

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2- COMPOSITION / INFORMATION ON INGREDIENTS :

SUBSTANCE

Chemical name : polystyrene latex fluorescent particles

Synonym :

CAS NUMBER : none

EINECS NUMBER : none

Components or impurities contributing to hazard : polystyrene / fluorescent indicator

PREPARATION

Chemical nature : water suspension of polystyrene beads with fluorescent indicator

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 fluorescent indicator	≤10%	-	-
fluorescent indicator	<0,2%	-	-
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

↳ 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

- 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. Show 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 > 0,8µm

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 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 : 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

Subject	Date	N°	Identification
Creation	09/04/2004	1	ESTAPOR – calibrated latex particles, fluorescent grades
Modifications to respond to European regulation requirement	12/01/2006	2	ESTAPOR – calibrated latex particles, fluorescent grades