

# Safety data sheet

according to 1907/2006/EC, Article 31

Date Printed 27.02.2019

Version number 1

Revision Date 06.02.2014

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: POLYSTYRENE UNIFORM LATEX PARTICLES**
- **Article number:** AGS130-1/7
- **CAS Number:**  
 Styrene polymer CAS 9003-53-6  
 Water CAS 7732-18-5
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
 No further relevant information available.
- **Application of the substance / the preparation:** Not specified.
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier.**  
 Agar Scientific Ltd  
 Parsonage Lane  
 Stansted CM24 8GF  
 United Kingdom  
 sales@agarscientific.com  
 Tel: +44 (0) 1279 813 519
- **Further information obtainable from:** Technical Support
- **1.4 Emergency telephone number:** 24 hours: +44 (0)1856 407333

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.  
 Skin Sens. 1 H317 May cause an allergic skin reaction.

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- **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008**  
 The substance is classified and labelled according to the CLP regulation.
  - **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard statements**  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.
- **Precautionary statements**  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves / eye protection / face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**
- **CAS No. Description**  
POLYSTYRENE UNIFORM LATEX PARTICLES
- **Identification number(s)**  
Styrene polymer CAS009003-53-6  
Water CAS007732-18-5

## SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**  
EYES: Irrigate immediately with water for at least 5 minutes.  
SKIN: Wash off in flowing water or shower.  
INGESTION: No adverse effects anticipated by this route of exposure incidental to proper industrial handling.  
INHALATION: No adverse effects anticipated by this route of exposure.
- **After inhalation:**  
Supply fresh air.  
No adverse effects are anticipated from inhalation.
- **After skin contact:** Wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture**  
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store at temperatures between 5°C and 38°C. Material may develop bacteria odour on long-term storage. No safety problems known. Practice reasonable care to avoid repeated, prolonged skin contact.

**Information about fire - and explosion protection:**

FLASH POINT: Not applicable.

METHOD USED: Not applicable.

**FLAMMABLE LIMITS**

LFL: Not applicable.

UFL: Not applicable.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage:**

**Requirements to be met by storerooms and receptacles:**

Store at temperatures between 5°C and 38°C.

**Information about storage in one common storage facility:**

Store at temperatures between 4°C and 38°C.

**Further information about storage conditions:** Keep container tightly sealed.

**7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

**Additional information about design of technical facilities:**

HANDLING PRECAUTIONS:

VENTILATION: Good general ventilation should be sufficient for most conditions.

RESPIRATORY PROTECTION: For most conditions no respiratory protection should be needed, however, in misty atmospheres use an approved mist respirator.

SKIN PROTECTION: Wear clean, long-sleeved, body-covering clothing. Use impervious gloves when prolonged or frequently repeated contact could occur.

EYE PROTECTION: Use safety glasses.

**8.1 Control parameters**

**Ingredients with limit values that require monitoring at the workplace:** Not required.

**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

**Respiratory protection:** Not required.

**Protection of hands:**



Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

INGREDIENTS: (% w/w, unless otherwise noted)

Styrene polymer CAS009003-53-6 30%

Water CAS007732-18-5 70%

PHYSICAL DATA:

BOILING POINT: 212°F, 100°C

VAP. PRESS: 17.5 mm Hg @ 20°C

VAP. DENSITY: 0.624 @ 80°F

SOL. IN WATER: Emulsion

SP. GRAVITY: 0.980-1.040

APPEARANCE: Milky white liquid emulsion

ODOUR: Slight odour

The physical data listed are for a series of latexes. For specific properties on any given latex, see the product bulletin.

· **General Information**

· **Appearance:**

Form:

Fluid

Colour:

Milky white

· **Odour:**

Slight specific

· **Odour threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Change in condition**

**Melting point/freezing point:**

Undetermined.

**Initial boiling point and boiling range:** 100 °C

· **Flash point:**

Not applicable.

· **Flammability (solid, gas):**

Not applicable.

· **Decomposition temperature:**

Not determined.

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· <b>Auto-ignition temperature:</b>	Not determined.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapour pressure at 20 °C:</b>	23 hPa
· <b>Density at 20 °C:</b>	0.98-1.04 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Not determined.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>9.2 Other information</b>	No further relevant information available.

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**  
(CONDITIONS TO AVOID) May coagulate if frozen at 32°F, 0°C. Dried resin is combustible.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**  
(SPECIFIC MATERIALS TO AVOID) Addition of chemicals may cause coagulation.
- **10.6 Hazardous decomposition products:**  
If burned, produces a dense black smoke and noxious gases (carbon monoxide and hydrocarbons).
- **Additional information:** HAZARDOUS POLYMERIZATION Will not occur.

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

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- **Aspiration hazard** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:**  
ACTION TO TAKE FOR SPILLS/LEAKS:  
Avoid unnecessary exposure and contact. Avoid dilution with water to minimize the extent of the latex spill. Dike and contain with inert material (i.e. dirt or sand), to prevent latex from entering municipal sewers or surface waters. Recover and recycle spilled latex if possible, otherwise collect with absorbent material and transfer to appropriate containers for disposal. Water may be used for final cleaning of affected areas.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Recommendation:**  
DISPOSAL METHOD:  
Do not pump into any sewers, on the ground or into any body of water. For unformulated or uncontaminated latex, the preferred disposal options are to send to a licensed recycler, reclaimer or incinerator. The same disposal options are recommended for formulated or contaminated material, although additional evaluation is required. Any disposal practice must be in compliance with local laws and regulations. Check with the appropriate agencies for your locations. For additional information see REACTIVITY DATA and REGULATORY INFORMATION.

## SECTION 14: Transport information

· <b>14.1 UN-Number</b>	Not applicable
· <b>14.2 UN proper shipping name</b>	POLYSTYRENE UNIFORM LATEX PARTICLES
· <b>14.3 Transport hazard class(es)</b>	Not specified
· <b>14.4 Packing group</b>	Not specified
· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No Yes (PP)

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· <b>14.6 Special precautions for user</b>	Not applicable.
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· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
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## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge and should assist the user with the safe handling of this material when properly applied. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Sales department
- **Contact:**  
sales@agarscientific.com  
Tel: +44 (0) 1279 813 519
- **Abbreviations and acronyms:**  
PP: Severe Marine Pollutant  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1