

Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)
Classification according to Regulation (EC) No. 1272/2008 [CLP]

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

Product identifier

| | |
|----------------------------------|---|
| Product code | 60107-314 |
| Product name | HyperSep™ Retain CX Cartridges |
| Chemical Name | Not Applicable |
| REACH registration number | No registration number is given yet for this substance / substances in this mixture since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet expired. |

Relevant identified uses of the substance or mixture and uses advised against

| | |
|---------------------------------|--|
| Relevant identified uses | For research use only |
| Use Description Code | SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen), PROC15 - Use as laboratory reagent, PC21 - Laboratory chemicals, SU24 - Scientific research and development |
| Uses advised against | Not for consumer use. |

Details of the supplier of the safety data sheet

Manufacturer / Supplier

Thermo Fisher Scientific
197 Cardiff Valley Road
RockWood, TN 37854

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24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and
[or Dangerous Goods] Incident. Spill, Leak, Fire, 1-703-527-3887
Exposure, or Accident. Call CHEMTREC Outside the USA + Canada: 1-703-741-5970

Country Specific Emergency Number (if available):

CHEMTREC Ireland (Dublin) +(353)-19014670 (Greeting Language: English and Irish)
CHEMTREC UK (London) +(44)-870-8200418 (Greeting Language: English)

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Physical hazards

Not Hazardous

Health hazards

Not Hazardous

Environmental hazards

Not Hazardous

Additional information

Not Applicable

Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms

No Pictogram

Signal Word

None

Hazard Statements

Not Applicable

EU Specific Hazard Statements

Not Applicable

Precautionary Statements

Prevention

Not Applicable

Response

Not Applicable

Storage

Not Applicable

Disposal

Not Applicable

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Other hazards

Not Applicable

SECTION 3: Composition/information on ingredients

| Chemical Name | CAS No | EINECS-No. | Weight-% | REACH registration number | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--------|------------|----------|---------------------------|---|
| Polystyrene divinylbenzene grafted with aromatic sulfonic acid group polymer | - | Listed | 100 | - | - |

SECTION 4: First aid measures

Description of first aid measures

| | |
|---------------------------|---|
| Skin contact | Rinse skin with water. Immediate medical attention is not required. |
| Eye contact | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Ingestion | Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice. |
| Inhalation | Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary. |
| Notes to Physician | Treat symptomatically. |

Most important symptoms and effects, both acute and delayed

Not Applicable

Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

Extinguishing media

| | |
|---------------------------------------|---|
| Suitable extinguishing media | Water spray. Carbon dioxide (CO ₂). Foam. Dry chemical. |
| Unsuitable extinguishing media | No information available. |

Special hazards arising from the substance or mixture

Not known

Protective equipment and precautions for firefighters

Standard procedure for chemical fires.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation
Always wear recommended Personal Protective Equipment
Use personal protection equipment
See section 8 for more information

Environmental precautions

No special environmental precautions required.

Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

Reference to other sections

See section 8 for more information.

SECTION 7: Handling and storage

Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers. Keep container tightly closed.

Specific end use(s)

For research use only.

SECTION 8: Exposure controls/personal protection

Control parameters

| Chemical Name | EU OEL (TWA) | EU OEL (STEL) | EU Skin Notation |
|--|--------------|---------------|------------------|
| Polystyrene divinylbenzene grafted with aromatic sulfonic acid group polymer | None | None | None |

| Chemical Name | Austria | Belgium (TWA) | Czech Republic |
|--|---------|---------------|----------------|
| Polystyrene divinylbenzene grafted with aromatic sulfonic acid group polymer | None | None | None |

| Chemical Name | Denmark (TWA) | Finland OEL (TWA) | France OEL (VME) |
|--|---------------|-------------------|------------------|
| Polystyrene divinylbenzene grafted with aromatic sulfonic acid group polymer | None | None | None |

| Chemical Name | Germany OEL (TWA) | Ireland (TWA) | Italy OEL (TWA) |
|--|-------------------|---------------|-----------------|
| Polystyrene divinylbenzene grafted with aromatic sulfonic acid group polymer | None | None | None |

| Chemical Name | Lithuania OEL (TWA) | Netherlands OEL (MAC) | Norway |
|--|---------------------|-----------------------|--------|
| Polystyrene divinylbenzene grafted with aromatic sulfonic acid group polymer | None | None | None |

| Chemical Name | Poland | Portugal | Spain OEL (TWA) |
|--|--------|----------|-----------------|
| Polystyrene divinylbenzene grafted with aromatic sulfonic acid group polymer | None | None | None |

| Chemical Name | Sweden - Occupational Exposure Limits - TLVs (LLVs) | Switzerland | United Kingdom |
|--|---|-------------|----------------|
| Polystyrene divinylbenzene grafted with aromatic sulfonic acid group polymer | None | None | None |

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Exposure controls

Personal protection equipment

Respiratory protection

In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

Hand protection

Wear suitable gloves Glove material: Compatible chemical-resistant gloves.

Eye protection

Tight sealing safety goggles.

Skin and Body Protection

Wear suitable protective clothing.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls
No special environmental precautions required.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

| | | |
|---|------------|------------|
| Appearance | powder | |
| Odour | No data | |
| Odour Threshold | No data | |
| Molecular Weight | No data | |
| Melting point / melting range | °C No data | °F No data |
| Boiling point / boiling range | °C No data | °F No data |
| Flash point | °C No data | °F No data |
| Autoignition Temperature | °C No data | °F No data |
| Decomposition temperature | °C No data | °F No data |
| Evaporation rate | No data | |
| Flammability (solid, gas) | No data | |
| Upper explosion limit | No data | |
| Lower explosion limit | No data | |
| Vapour Pressure | No data | |
| Vapour density | No data | |
| Relative density | No data | |
| Specific gravity | No data | |
| Solubility | No data | |
| Partition coefficient: n-octanol/water | No data | |
| Viscosity | No data | |
| Explosive properties | No data | |
| Oxidising properties | No data | |

Other information
No data.

SECTION 10: Stability and reactivity

| | |
|---|---|
| Reactivity | None known. |
| Chemical stability | Stable under normal conditions. |
| Possibility of hazardous reactions | Hazardous reaction has not been reported. |
| Conditions to avoid | No information available. |
| Incompatible materials | No dangerous reaction known under conditions of normal use. |
| Hazardous decomposition products | No data available. |

SECTION 11: Toxicological information

Information on toxicological effects

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

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|-------------------|-------------------|-------------------|
| Polystyrene divinylbenzene grafted with aromatic sulfonic acid group polymer | No data available | No data available | No data available |

Principal Routes of Exposure

Skin corrosion/irritation No information available

Serious eye damage/irritation No information available

Respiratory or skin sensitisation No information available

Specific target organ toxicity (STOT) – single exposure No information available

Specific target organ toxicity (STOT) – repeated exposure No information available

Carcinogenicity No information available

Germ cell mutagenicity No information available

Reproductive Toxicity No information available

Aspiration Hazard No information available

SECTION 12: Ecological information

Ecotoxicity

The environmental impact of this product has not been fully investigated.

| Chemical Name | Toxicity to algae | Toxicity to daphnia and other aquatic invertebrates | Toxicity to fish | Microtox Data | log Pow |
|--|-------------------|---|-------------------|-------------------|-------------------|
| Polystyrene divinylbenzene grafted with aromatic sulfonic acid group polymer | No data available | No data available | No data available | No data available | No data available |

Mobility in soil No information available.

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Results of PBT and vPvB assessment

No information available.

Other adverse effects

No information available.

SECTION 13: Disposal considerations

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

SECTION 14: Transport information

IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

| | |
|-----------------------------------|----------------|
| UN number | Not Applicable |
| UN proper shipping name | Not Applicable |
| Transport hazard class(es) | Not Applicable |
| Packing group | Not Applicable |

Environmental hazards

Not Applicable

Special precautions for user

Not Applicable

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Transport in bulk according to Annex II of MARPOL and the IBC Code

Not Applicable.

SECTION 15: Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture****Substances of Very High Concern**

None.

Substance subject to authorisation per REACH Annex XIV

None

Restricted substances under EC 1907/2006, Annex XVII

None.

Regulation (EC) No 649/2012 (Rotterdam Convention - export/import of dangerous chemicals)**Regulation (EU) No 2019/1021 (Stockholm Convention – persistent organic pollutants)**

None

EU - Substances Depleting the Ozone layer (1005/2009)**German Water hazard classes (Wassergefährdungsklassen)**

Not classified.

Other International Inventories

| Chemical Name | EINECS (European Union) | ELINCS (European List of Notified Chemical Substances) | ENCS (Japan) | PICCS (Philippines) |
|--|-------------------------|--|--------------|---------------------|
| Polystyrene divinylbenzene grafted with aromatic sulfonic acid group polymer | - | - | - | - |

| Chemical Name | AICS (Australia) | South Korea (KECL) | Canada (DSL) | NDSL |
|--|------------------|--------------------|--------------|------|
| Polystyrene divinylbenzene grafted with aromatic sulfonic acid group polymer | - | - | - | - |

Chemical safety assessment

No Chemical safety assessment has been carried out.

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SECTION 16: Other information

Reason for revision Update according to Commission Regulation (EU) No 830/2015
Revision number 2
Revision date 13-Nov-2020

References

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>
- LOLI database: <https://www.chemadvisor.com/loli-database>

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:
Not classified

Abbreviations and acronyms

TWA - Time-Weighted Average
OELs - Occupational Exposure Limits
STEL - Short Term Exposure Limit
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
KECL - Korean Existing and Evaluated Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
CEPA - Canadian Environmental Protection Act
EPA - Environmental Protection Agency
OSHA - Occupational Safety and Health Administration of the US Department of Labour
IATA - International Air Transport Association
DOT - Department of Transportation
IMDG - International Maritime Dangerous Goods
ACGIH - American Conference of Governmental Industrial Hygienists
NIOSH - National Institute for Occupational Safety and Health
AIHA - American Industrial Hygiene Association
HMIS - Department of Defense Hazardous Materials Information System
NTP - National Toxicology Program
IARC - International Agency for Research on Cancer

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

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