

1. Identification of the substance and of the company

1.1 Product identifiers

Product name PSS POLEFIN column in xylene (less than 5 ml)

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

Identified uses Analytical Chemistry. Chromatography column
SDS refers to contents of the column
POA080510 - POLEFIN, 8 x 50 mm, 10µm, guard column
POA080520 - POLEFIN, 8 x 50 mm, 20µm, guard column

1.3 Details of the supplier of the safety data sheet

Company PSS Polymer Standards Service GmbH
In der Dalheimer Wiese 5
D - 55120 Mainz

Technical phone +49 6131 - 96239 - 0

Fax +49 6131 - 96239 -11

Email sds@pss-polymer.com

1.4 Emergency telephone number

24-hour emergency contact number: +1 872 5888271 (PSS)

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Flammable liquids (Category 3), H226
Acute toxicity, Inhalation (Category 4), H332
Acute toxicity, Dermal (Category 4), H312
Skin irritation (Category 2), H315
Eye irritation (Category 2), H319
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Specific target organ toxicity - repeated exposure (Category 2), hearing organs, H373
Specific target organ toxicity - repeated exposure, Inhalation (Category 2), Central nervous system, Liver, Kidney, H373
Aspiration hazard (Category 1), H304
Long-term (chronic) aquatic hazard (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

Note: The product is intended for use as in chromatographic column. Use only as directed and in accordance with good laboratory practices. No safety and health hazard should be present, because the compounds are enclosed in the product. Only in case of release, there is a potential safety and health hazard.

2.2 Label elements

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

Pictogram



Signal word

Danger

Safety Data Sheet



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Hazard Statements:	H226	Flammable liquid and vapor.
	H304	May be fatal if swallowed and enters airways.
	H312 + H332	Harmful in contact with skin or if inhaled.
	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H335	May cause respiratory irritation.
	H373	May cause damage to organs (hearing organs) through prolonged or repeated exposure.
	H373	May cause damage to organs (Central nervous system, Liver, Kidney) through prolonged or repeated exposure if inhaled.
	H412	Harmful to aquatic life with long lasting effects.
Precautionary statement(s)	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
	P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
	P331	Do NOT induce vomiting.
Supplemental Hazard Statement		none

Restricted to professional users.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Composition / information on ingredients

3.1 Substances

Synonyms: poa# e.g. poa0830101e3
pom# e.g. pom0525101e3
Component: polystyrene based porous copolymer beads –
in xylene (less than 15 ml)

Component Number	1	2
Component Name	Polystyrene based porous copolymer beads	Xylene
CAS No	N/A	1330-20-7
EC Number	N/A	215-535-7

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Index Number	N/A	601-022-00-9
EC 1272/2008 hazard class, code and statement	N/A	Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; STOT RE 2; Asp. Tox. 1; Aquatic Chronic 3; H226, H332, H312, H315, H319, H335, H373, H304, H412
%wt (approx)	20-35	65-80

4. First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. Consult a physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Remove contact lenses.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for fire fighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

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7. Handling and storage

7.1 Precautions for safe handling

Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure controls / personal protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Keep away from foodstuffs, beverages and feed. Immediately remove contaminated clothing.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields and face-shield conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, flame retardant antistatic protective clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Component Number	1	2
Component Name	Polystyrene based porous copolymer beads	Xylene
Appearance:	solid / fluid	liquid
Odour	no data available	no data available

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Odour Threshold	no data available	no data available
pH	no data available	no data available
BP/BP Range	no data available	110-111°C
Mp/Mp Range	no data available	<0°C
Flash Point	no data available	no data available
Flammability	no data available	no data available
Autoignition Temp.	no data available	no data available
Oxidizing Properties	no data available	no data available
Explosive Properties	no data available	no data available
Explosion Limits	no data available	no data available
Vapor Pressure	no data available	no data available
SG/Density	no data available	0.865 g/cm ³
Partition Coefficient	no data available	no data available
Viscosity	no data available	no data available
Evaporation Rate	no data available	no data available
Solubility in Water:	Insoluble	no data available
Molecular Weight	no data available	106.17 g/mol
Viscosity @ °C	no data available	no data available

9.2 Other safety information

no data available

10. Stability and reactivity

10.1 Reactivity

Vapor/air-mixtures are explosive at intense warming.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Other decomposition products - no data available

11. Toxicological information

11.1 Information on toxicological effects

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

Acute toxicity

Xylene:

LD50 Oral - Rat - male - 3.523 mg/kg (Xylene)

(EC Directive 92/69/EEC B.1 Acute Toxicity (Oral))

Remarks: (ECHA)

Acute toxicity estimate Inhalation - 4 h - 12 mg/l

(Calculation method)

LC50 Inhalation - Rat - male - 4 h - 29,09 mg/l (Xylene)

(Regulation (EC) No. 440/2008, Annex, B.2)

Remarks: (Regulation (EC) No 1272/2008, Annex VI)

Acute toxicity estimate Dermal - 1.376 mg/kg

(Calculation method)

LD50 Dermal - Rabbit - > 1.700 mg/kg (Xylene)

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Remarks: (RTECS)

Skin corrosion/irritation

Xylene:

Skin - Rabbit (Xylene)

Result: Moderate skin irritation - 24 h

Remarks: (IUCLID)

Drying-out effect resulting in rough and chapped skin. After long-term exposure to the chemical: Dermatitis (Xylene)

Serious eye damage/eye irritation

Xylene:

Eyes - Rabbit (Xylene)

Result: Causes serious eye irritation. - 24 h

Remarks: (RTECS)

Respiratory or skin sensitisation

Xylene:

Local lymph node assay (LLNA) - Mouse (Xylene)

Result: negative

(OECD Test Guideline 429)

Germ cell mutagenicity

Xylene:

Test Type: Mutagenicity (mammal cell test): chromosome aberration. (Xylene)

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: Regulation (EC) No. 440/2008, Annex, B.10

Result: negative

Remarks: (National Toxicology Program)

Test Type: Ames test

(Xylene)

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: sister chromatid exchange assay

(Xylene)

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: Regulation (EC) No. 440/2008, Annex, B.19

Result: negative

(Xylene)

Test Type: dominant lethal test

Species: Mouse

Method: OECD Test Guideline 478

Result: negative

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

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Aspiration hazard

Xylene:

May be fatal if swallowed and enters airways.

Potential health effects

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion

May be harmful if swallowed.

Skin

May be harmful if absorbed through skin. May cause skin irritation.

Eyes

May cause eye irritation.

Additional Information

no data available

12. Ecological information

12.1 Toxicity

Xylene:

Toxicity to fish static test LC50 - Oncorhynchus mykiss (rainbow trout) - 2,60 mg/l - 96 h
(Xylene)
(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates
static test EC50 - Pseudokirchneriella subcapitata - 4,36 mg/l - 73 h
(Xylene)
(OECD Test Guideline 201)

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Xylene:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

no data available

13. Disposal considerations

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

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14. Transport information

This Safety Data Sheet is written based on the encapsulated substance or mixture in this article. Since the hazardous ingredient is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

IATA / TDG / DOT / IMDG: Not regulated

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2 Chemical Safety Assessment

no data available

16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H312 + H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

WARRANTY

The information in this document is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product. PSS GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.

DISCLAIMER

For R&D use only. Not for drug, household, or other uses.