

SAFETY DATA SHEET

Prepared by: Benedikt Wanner
Date: April 15th, 2019
Version: 0001



Section 1 – Product and Company Identification

- 1.1 Product name:** Synple Chem reagent cartridge
1.2 Product code: Biotin PX
1.3 Recommended Use: Laboratory chemical consumable
1.4 Company Name: Synple Chem AG,
Vladimir-Prelog-Weg 3,
CH-8093 Zürich,
Switzerland
- 1.5 Contact Details:** Telephone: +41 (0)44 633 42 95
8:00 a.m. – 5:00 p.m. CET
email: info@synplechem.com

Section 2 – Hazards Identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. Caution – substance not yet tested completely

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. Caution – substance not yet tested completely

2.3 Other hazards

none

Section 3 – Composition / Information on Ingredients

| | | | |
|------------------|---|-------------|---------------|
| Name: | Biotin | | |
| Synonyms | Vitamin H | | |
| Formula | C ₁₀ H ₁₆ N ₂ O ₃ S | | |
| Molecular Weight | 244.31g/mol | | |
| Classification | – | | |
| CAS – No. | EC – No. | Index – No. | Concentration |
| 58-85-5 | 200-399-3 | – | – |

| | | | |
|------------------|--|-------------|---------------|
| Name: | NEt ₃ -silica bound | | |
| Synonyms | Triethylamine –functionalized silica gel | | |
| Formula | – | | |
| Molecular Weight | – | | |
| Classification | – | | |
| CAS – No. | EC – No. | Index – No. | Concentration |
| – | – | – | – |

SAFETY DATA SHEET

Prepared by: Benedikt Wanner
Date: April 15th, 2019
Version: 0001



| | | | |
|------------------|---|-------------|---------------|
| Name: | SCX-2 | | |
| Synonyms | Propylsulfonic acid – functionalized silica gel | | |
| Formula | – | | |
| Molecular Weight | – | | |
| Classification | – | | |
| CAS – No. | EC – No. | Index – No. | Concentration |
| – | – | – | – |

| | | | |
|------------------|-----------------------|-------------|---------------|
| Name: | MP – Cyanoborohydride | | |
| Synonyms | Polymer bound hydride | | |
| Formula | – | | |
| Molecular Weight | – | | |
| Classification | – | | |
| CAS – No. | EC – No. | Index – No. | Concentration |
| – | – | – | – |

Section 4 – First Aid Measures

4.1 Inhalation

If inhaled, move affected person to fresh air. If breathing is difficult give oxygen. If breathing has stopped give artificial respiration. Seek medical attention.

4.2 Skin contact

Wash with soap and water. Seek medical attention if irritation develops or persists

4.3 Eye contact

Wash thoroughly with plenty of water for at least 15 minutes, separating the eyelids with the fingers. If eye irritation persists, seek medical attention

4.4 Ingestion

Wash mouth with plenty of water if person is conscious. Never give anything by mouth to an unconscious person. Consult a physician.

Section 5 – Fire-Fighting Measure

5.1 Suitable Extinguishing media

Use alcohol – resistant foam or dry chemical extinguishers

5.2 Special hazards arising from the cartridge substances or mixtures

May release toxic or flammable vapors during a fire

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Section 6 – Accidental Release Measures

6.1 Personal precautions

SAFETY DATA SHEET

Prepared by: Benedikt Wanner
Date: April 15th, 2019
Version: 0001



In case of a damaged cartridge or leaking reagent out of the cartridge avoid breathing dust. Ventilate the area thoroughly and shut off sources of ignition. Avoid raising dust. Use protective equipment described in Section 8.

6.2 Environmental precautions

Do not let the materials inside the cartridge enter the drain.

6.3 Methods and materials for containment and cleaning up

Contain spilled cartridge material and pick up without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. For disposal see Section 13.

Section 7 – Handling and Storage

7.1 Precautions for safe handling

Do not try to open the reagent cartridge.

7.2 Conditions for safe storage

Keep cartridge in sealed closed bag. Store below 8°C, out of direct sunlight and away from incompatible substances.

7.3 Specific end-usage

Use only in the application the cartridge intended for. Only use with Synple Chem synthesizer devices.

Section 8 – Exposure Controls / Personal Protection

8.1 Personal protective equipment

Respiratory protection

Respiratory protection is not required when materials are contained in the cartridge. When spilled see Section 6.

Hand protection

Handle with gloves. The selected protective gloves have to satisfy the specifications of the EU Directive 89 / 686 / EEC and the standard EN 374 derived from it. Gloves must be inspected prior to use. Use proper glove removal technique (without touching the outer surface of the glove) to avoid skin contact with the product. Dispose of gloves after use in accordance with applicable regulations and good laboratory practice. Wash and dry hands.

Eye protection

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

Skin and body protection

Choose body protection according with good laboratory practices and to specific workplace.

Hygiene measure

Handle in accordance with good laboratory hygiene and safe practice. Wash hands before breaks and at the end of the workday.

Section 9 – Physical and Chemical Properties

SAFETY DATA SHEET



Prepared by: Benedikt Wanner
Date: April 15th, 2019
Version: 0001

9.1 Appearance

Form: Plastic Reagent Cartridge
Filled with solid reagents / powder
Colour: White / Brown

9.2 Safety Data

pH No data available
Melting point No data available
Boiling point No data available
Flash point No data available
Ignition temperature No data available
Lower explosion limit No data available
Upper explosion limit No data available
Water solubility Insoluble

Section 10 – Stability and Reactivity

10.1 Chemical Stability

Stable under recommended storage conditions for at least 1 year

10.2 Conditions to avoid

Avoid temperatures above 60°C, long exposure to air and moisture

10.3 Materials to avoid

Strong oxidizing agents or corrosive chemicals

10.4 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions – monomers, carbon dioxide and / or carbon monoxide, nitrogen oxides, boron oxides, borane

Section 11 – Toxicological Information

11.1 Acute Toxicity

No data available

Other components:

No data available

11.2 Skin corrosion / irritation

No data available

11.3 Serious eye damage / eye irritation

No data available

11.4 Respiratory or skin sensation

No data available

11.5 Germ cell mutagenicity

No data available

11.6 Carcinogenicity

SAFETY DATA SHEET



Prepared by: Benedikt Wanner
Date: April 15th, 2019
Version: 0001

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NPT or EPA classification

- 11.7 Reproductive toxicity**
No data available
- 11.8 Specific target organ toxicity – single exposure**
No data available
- 11.9 Specific target organ toxicity – repeated exposure**
No data available
- 11.10 Aspiration hazard**
No data available
- 11.11 Additional information**

Silica:

RTECS: VV7315000

Amorphous silica is not classifiable as to its carcinogenicity to humans (Group 3); however, crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1, IARC). Therefore, amorphous silica should be handled as if possessing the same hazards as the crystalline form., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12 – Ecological Information

- 12.1 Toxicity**
No data available
- 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**
No data available
- 12.6 Other adverse effects**
No data available

Section 13 – Disposal Considerations

- 13.1 Product (Reagent cartridge)**
Contact a licensed professional waste disposal service to dispose of this material. Combine the cartridge with a combustible solvent and burn in a chemical incinerator quipped with an afterburner and scrubber.
- 13.2 Contaminated packaging**

SAFETY DATA SHEET

Prepared by: Benedikt Wanner
Date: April 15th, 2019
Version: 0001



In case some chemical material will exit the cartridge and contaminate the outer packaging dispose the packaging in the same way as the cartridge.

13.3 Un-Contaminated Packaging

Can be disposed with regular waste

Section 14 – Transport Information

Not classified as dangerous goods by ADR / RID, IMDG, or IATA

Section 15 – Regulatory Information

Not hazardous according to UN GHS, EU Regulation EC 1272 / 2008, or Directive 67 / 548 / EEC. Caution: This substance has not been fully tested (EC).

15.1 Safety, health and environmental regulations/legislation specific for the substrate or mixture
No data available

15.2 Chemical safety assessment
For this product a chemical safety assessment was not carried out.

Section 16 – Other Information

This product must only be handled by, or under close supervision of those qualified in the handling and use of potentially hazardous substances. This Safety Data Sheet is offered without charge to the clients of Synple Chem and it is issued only as a guide for safe handling, use, storage, disposal and release. Information contained on this sheet is the most current available to Synple Chem at the time of preparation but does not purport to be all inclusive or a guarantee as to the properties of the product supplied. Synple Chem makes no warranties or representations as to the accuracy and completeness of the information contained herein. Synple Chem shall not be held responsible for the suitability of this information for the user's intended purposes or the consequence of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.