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## Section 1 - Product and Company Identification

**1.1 Product name:** Synple Chem reagent cartridge – Azide Formation – Aryl Amines

**1.2** Product code: A002

1.3 Recommended Use: Laboratory chemical consumable

**1.4 Company Name:** Synple Chem AG,

Kemptpark 18, 8310 Kemptthal Switzerland

**1.5 Contact Details:** Telephone: +41 (0)44 244 08 50

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

Classification according to Regulation (EC) No 1272/2008

#### Copper(II)sulfate pentahydrate

Acute toxicity, Oral (Category 4), H302 Serious eye damage (Category 1), H318 Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 1), H410

#### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

#### Copper(II)sulfate pentahydrate

Pictogram



Signal word Danger

Hazard statement(s)

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel

unwell. Rinse mouth.

P305 + P351 + P338 + IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing. Immediately call a POISON CENTER/doctor.

Supplemental Hazard

Statement(s)

P310

none

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## 2.3 Other hazards

none

## Section 3 – Composition / Information on Ingredients

Name:		Imidazole-1-sulfonyl azide tetrafluoroborate	
Synonyms		_	
Formula		C <sub>3</sub> H <sub>3</sub> N <sub>5</sub> O <sub>2</sub> S <sub>2</sub> .HBF <sub>4</sub>	
Molecular Weight		260.96 g/mol	
Classification		_	
CAS – No.	EC – No.	Index – No.	Concentration
_	_	_	_

Name:		Copper(II)sulfate pentahydrate	
Synonyms		Copper sulphate, cupric sulphate, Blue vitriol	
Formula		CuSO <sub>4</sub> • 5H <sub>2</sub> O	
Molecular Weight		249.69 g/mol	
Classification		Acute Tox. 4; Eye Dam. 1; Aquatic Acute 1; Aquatic	
		Chronic 1; H302, H318, H400, H410	
CAS – No.	EC – No.	Index – No.	Concentration
7758-99-8	231-847-6	029-004-00-0	<1%

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

Name:		Potassium bicarbonate	
Synonyms		Potassium acid carbonate	
Formula		KHCO <sub>3</sub>	
Molecular Weight		100.12 g/mol	
Classification		_	
CAS – No.	EC – No.	Index – No.	Concentration
298-14-6	206-059-0	1	_

Name:		Silica supported triethylamine	
Synonyms		_	
Formula		_	
Molecular Weight		_	
Classification		_	
CAS – No.	EC – No.	Index – No.	Concentration
_	_	_	_

Name: Celite (HM-N)
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Synonyms		-	
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 Indestion

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 (Sulphur oxides, Copper oxides)

## 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

## Section 6 - Accidental Release Measures

#### 6.1 Personal precautions

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

#### 6.2 Environmental precautions

Do net 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.

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## 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 inspection 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

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
Lower explosion limit 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

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#### 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

LD50 Oral - Rat - male and female - 482 mg/kg LD50 Dermal - Rat - male and female - > 2.000 mg/kg

#### 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

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

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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

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

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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.