

# SAFETY DATA SHEET

Prepared by: Benedikt Wanner  
Date: April 16<sup>th</sup>, 2021  
Version: 0002



## Section 1 – Product and Company Identification

- 1.1 Product name:** Synple Chem reagent cartridge – PPU – Amide formation  
**1.2 Product code:** A111  
**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](mailto: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:		Oxyma Pure	
Synonyms		–	
Formula		$C_5H_6N_2O_3$	
Molecular Weight		142.12 g/mol	
Classification			
CAS – No.	EC – No.	Index – No.	Concentration
3849-21-6	223-351-3	–	–

Name:		Trimethylammonium Carbonate-Derivatized Silica Gel	
Synonyms			
Formula		–	
Molecular Weight		–	
Classification		<b>Amorphous Silica:</b> Harmful by inhalation. Irritating to eyes. Irritating to respiratory tract. Do not inhale the dust.	

# SAFETY DATA SHEET

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CAS – No.	EC – No.	Index – No.	Concentration
–	–	–	–

Name:	Cyclohexylcarbodiimide-Derivatized Silica Gel		
Synonyms			
Formula	–		
Molecular Weight	–		
Classification	<b>Amorphous Silica:</b> Harmful by inhalation. Irritating to eyes. Irritating to respiratory tract. Do not inhale the dust.		
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.

### Skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

### 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.

### Ingestion

Rinse 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 water spray, alcohol-resistant foam, dry chemical or carbon dioxide

### 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

In case of a damaged cartridge or leaking reagent out of the cartridge avoid breathing dust and vapours, mist or gas. Ventilate the area thoroughly and shut off sources of ignition. Evacuate personnel to safe areas. 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.

# SAFETY DATA SHEET

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Version: 0002



## 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

### 9.1 Appearance

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

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## 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

### 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

# **SAFETY DATA SHEET**

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## **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**

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**

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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.