## **Material Safety Data Sheet**

Revision Date: 12/2/2022

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : 1-(Fmoc)-piperazine-2-carboxylic acid

CAS Number : 918435-70-8

MDL Number : MFCD02682404

Product ID : STA-AA10083

Recommended Use : Laboratory chemicals, scientific research

Manufacturer/Supplier : WuXi AppTec (Chengdu) Co., Ltd.

Address : No.388 Haifa Road, Chengdu Cross-Strait Science &

Technology Industrial Development Park, Wenjiang, District

of Chengdu, Sichuan, 611130, China

Telephone : +86-28-60353770 Fax : +86-28-60353770

#### 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Not a hazardous substance or mixture.

#### 2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

### 2.3 Other hazards - none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Chemical Formula : C20H20N2O4

Molecular Weight : 352.38 g/mol

#### EC-No.:

Component	1-(Fmoc)-piperazine-2-	Concentration
	carboxylic acid	
CAS Number	918435-70-8	

No components need to be disclosed according to the applicable regulations.

#### 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. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

# 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

Alcohol-resistant foam, dry chemical or carbon dioxide.

#### Unsuitable extinguishing media: no data

#### 5.2 Special hazards arising from the substance or mixture

In combustion toxic fumes may form.

#### 5.3 Advice for firefighters

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

Avoid dust formation. Avoid breathing vapours, mist or gas.

For personal protection see section 8.

# 6.2 Environmental precautions

Do not let product enter drains.

## 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

# 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in -20°C. 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 no other specific uses are stipulated.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear Protective safety goggles.

Wear chemical-resistant gloves.

Wear protective clothing and chemical resistant boots.

Ensure ventilation during use.

After contact with skin, wash immediately.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance White solid

Melting point/freezing point

No data available
Initial boiling point and boiling range

No data available

Odour Odorless

Odour Threshold No data available No data available Hq Evapouration rate No data available Vapour pressure No data available Vapor Density No data available Solubility in/Miscibility with CH<sub>3</sub>CN, DMF Auto-ignition temperature No data available Decomposition temperature No data available No data available Viscosity Explosive properties No data available Oxidizing properties No data available Flash point No data available Relative density No data available

## Safety data

No data available

# 10. STABILITY AND REACTIVITY

# 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

Avoid moisture.

## 10.5 Incompatible materials

Oxidizing agents.

# **10.6 Hazardous decomposition products**

Other decomposition products - No data available.

### 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

Acute toxicity No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitization No data available Germ cell mutagenicity No data available 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 Aspiration hazard No data available

#### 11.2 Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

### 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.

#### 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Offer surplus and non-recyclable solutions to a licensed disposal company.

## 13.2 Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

## 14.1 UN number

ADR/RID: - IMDG: - IATA: -

### 14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

## 14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG: no IATA: no

14.6 Special precautions for user

No data available.

## 15. REGULATORY INFORMATION

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

## 15.2 Chemical Safety Assessment

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

Caution: Substance not yet fully tested (EU).

### **16. OTHER INFORMATION**

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).