

# Safety Data Sheet

<b>1. PRODUCT AND COMPANY</b>	/ IDENTIFICATION
Product Name:	Fmoc-S-Trityl-L-penicillamine
Compound ID:	AG002DH9
CAS Number:	201531-88-6
Indentified uses:	Laboratory chemicals, manufacture of chemical compounds
Company:	Angene
2. HAZARDS IDENTIFICATION	<u>.</u>
Acute toxicity, oral, (Category 4), Skin corrosion/irritation, (Catego Serious eye damage/eye irritatio Specific target organ toxicity, sin Hazardous to the aquatic enviro	ry 2), H315
Pictogram	$\langle \mathbf{I} \rangle$
Signal Word	warning
Hazard statements H302 H315 H319 H335 H413	Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation May cause long lasting harmful effects to aquatic life
Precautionary statements P261 P305+P351+P338	Avoid breathing dust/fume/gas/mist/vapours/spray. IF IN EYES: Rinse cautiously with water for several minutes.Remove contact lenses,if

# P305+P351+P338

#### Hazards not otherwise classified (HNOC) or not covered by GHS - none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: CAS Number:	Fmoc-S-Trityl-L-penicillamine 201531-88-6	
Molecular Formula: Molecular Weight:	C39H35NO4S 613.7600	g/mol

present and easy to do. Continue rinsing.

## 4. FIRST AID MEASURES

#### Description of first aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

## 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. Consult a physician.

## In case of eye contact

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

## If swallowed

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

#### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2 or section 11)

# Indication of any immediate medical attention and special treatment needed

no data available

### **5. FIREFIGHTING MEASURES**

#### Extinguishing media Suitable extinguishing media

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

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

Carbon oxides, nitrogen oxides (NOx), Hydrogen bromide gas

#### Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### Further information

no data available

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

#### **Environmental precautions**

Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### Reference to other sections

For disposal see section 13.

## 7. HANDLING AND STORAGE

## Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see section 2.

### Conditions for safe storage, including any incompatibilities

lnert atmosphere.  $2-8^{\circ}$ C.

#### Specific end use(s)

Apart from the uses mentioned in section 1, no other specific uses are stipulated

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Appropriate engineering controls

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

## Personal protective equipment

### Eye/face protection

Face shield and safety glasses 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.

#### **Body Protection**

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

#### **Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Do not let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Odor: Odor Threshold: pH: Melting point: Boiling point/range: Flash point: Evapouration rate: Flammability: Upper/lower flammability: explosive limits: Vapor pressure: Vapour density: Relative density: Water solubility: Partition coefficient: Auto-ignition temperature: Decomposition Temp: log Pow: Viscosity: Explosive properties:	solid no data available no data available no data available 135-147°C 768.8°C at 760 mmHg no data available no data available
	no data available

#### Other safety information

no data available

## **10. STABILITY AND REACTIVITY**

Reactivity:	no data available
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	no data available
Conditions to avoid	no data available
Incompatible materials	no data available
Hazardous decomposition products	no data available
Other decomposition products:	no data available
In the event of fire:	see section 5

#### 11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Oral Rat LD50>11,500mg/kg
Dermal:	no data available
Skin corrosion/irritation:	no data available
Serious eye damage/irritation	no data available
Respiratory or skin sensitisation	The preceding data, or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling.
Germ cell mutagenicity	no data available
Carcinogenicity:	
IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	
Specific target organ toxicity - single exposure	Inhalation - May cause respiratory irritation.
Specific target organ toxicity - repeated exposure	no data available
Aspiration hazard	no data available
Additional Information	RTECS: Not available

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

## **12. ECOLOGICAL INFORMATION**

Toxicity	no data available
Persistence and degradability	no data available
Bioaccumulative potential	no data available
Mobility in soil	no data available
Results of PBT and vPvB	PBT/vPvB assessment not available as chemical safety assessment not required/not
Results of PBT and vPvB	PBT/vPvB assessment not available as chemical safety assessment not required/not
assessment	conducted
Other adverse effects	no data available

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging	Dispose of as unused product.
14. TRANSPORT INFORMATION	

DOT (US)	This substance is considered to be non-hazardous for transport.
IMDG	This substance is considered to be non-hazardous for transport.
IATA	This substance is considered to be non-hazardous for transport.

# **15. REGULATORY INFORMATION**

SARA 302:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards	Acute Health Hazard
Massachusetts Right To Know Components Pennsylvania Right To Know Components New Jersey Right To Know Components	No components are subject to the Massachusetts Right to Know Act.
California Prop. 65 Components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# **16. OTHER INFORMATION**

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

Acute Tox.	Acute toxicity
Eye Irrit.	Eye irritation
Skin Irrit.	Skin irritation
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

## Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Angene shall not be held liable for any damage resulting from handling or from contact with the above product. See invoice or packing slip for additional terms and conditions of sale.