

Version 1.0 Revision Date 18.12.2020

# **SECTION 1**

Identification of the substance/mixture and of the company/undertaking

# **Product Information**

Product Name	Supershield EPL 100
INCI Name	Polyepsilon-lysine (Poly-ε-Lysine)
CAS No.	28211-04-3

# **Manufacturer Information**

MAHA (CHINA) NEW MATERIAL TECHNOLOGY CO. LTD. Room 1104, Blk 10, Jingmao Royal House, Hangdu Avenue Section 4 No. 111, Shuangliu District, Chengdu, SiChuan Province, P.R.China

# **Emergency Telephone Number**

+86 028 85782728/ +86 15902832384/ +86 15680998160

# **SECTION 2**

Hazards identification

#### Classification of the substance or mixture

Polyepsilon-lysine (Poly-ε-Lysine)was found to be non-toxic at high levels in acute animal studies and was not mutagenic in bacterial reversion assays. Polyepsilon-lysine (Poly-ε-Lysine) was approved as "Generally Recognized as Safe" (GRAS No. GRN000315) by the US FDA in 2003.

#### Classification according to EC regulation 1272/2008 (CLP)

Not classified. This product is not classified as dangerous according to the CLP Regulation (EC) No 1272/2008.

#### Label elements

The information is given with best knowledge but no obligation or liability for any information in this document. Customer is responsible for the application of this product and information suitable for their specific purpose. Maha Chemicals assumes no warranties of any kind nor guarantee any representation, recommendation or data herein.

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Version 1.0 Revision Date 18.12.2020

Labelling	(CLP)
Pictogra	n

Not applicable.

**Signal word** Not applicable.

#### Hazard statements

Not applicable.

### **Precautionary statements** Not applicable.

Other hazards Not applicable.

# **SECTION 3**

## Composition/Information on ingredients

Component	Content	CAS No.
Polyepsilon-lysine (Poly-ε- Lysine)	≥ 95.0%	28211-04-3
Ash	≤ 3.0%	-
Lead	≤ 1 mg/kg	-
Arsenic	≤ 1 mg/kg	-

# **SECTION 4**

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Version 1.0 Revision Date 18.12.2020

# First aid measures

#### **Description of first aid measures**

Inhalation	Move victim to fresh air if discomfort is felt.
Skin contact	Wash with soap and water if necessary.
Eye contact	Rinse with plenty of water.
Ingestion	No treatment is necessary under normal circumstances. If symptoms occur seek medical advice.

# **SECTION 5**

#### Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	Dry powder, carbon dioxide, foam or water fog.
Extinguishing media which must not be used for safety reasons	Water jet.

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

Combustible. In case of fire may be liberated: Traces of incompletely burned carbon compounds, carbon monoxide and carbon dioxide.

#### Advice for firefighters

Treat as burning melted fat.

# **SECTION 6**

Accidental release measures

#### **Personal precautions, protective equipment and emergency procedures** Use personal protective equipment.



Version 1.0 Revision Date 18.12.2020

#### **Environmental Precautions**

No data available.

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

Sweep up and shovel into suitable containers for disposal. Clean thoroughly with suitable detergent. After cleaning, flush away traces with water.

## **SECTION 7**

#### Handling and storage

#### Handling

Take moisture-proof measure. Prevent sleeting drench attacks. Ensure adequate ventilation. Avoid dust formation in confined areas.

#### Storage

Store in cool (0-20°C), dry conditions, away from direct sunlight in original unopened packs.

## **SECTION 8**

#### Exposure controls/personal protection

#### **Exposure standards** Not applicable.

**Exposure controls** Not applicable.

#### **Personal protection equipment**

Use personal protective equipment.



Version 1.0 Revision Date 18.12.2020

# **SECTION 9**

# Physical and chemical properties

Information on basic physical and chemical properties

a) Appearance	White to creamy yellow powder
b) Physical state	Highly hygroscopic
c) Odour	No data available
d) Odour threshold	No data available
e) pH (1% Aqueous Solution)	4.0 – 6.5
f) Solubility	Soluble in water
g) Molecular weight	4700 Da (degree of polymerization = 30)
h) Melting point	172.8°C
i) Flash point/flash point range	No data available
j) Evaporation rate	No data available
k) Flammability	No data available
l) Explosion limits	No data available
m) Vapour pressure	No data available
n) Vapour density	No data available
o) Density	No data available
p) Partition coefficient: n-octanol/ water	No data available
q) Auto-ignition temperature	No data available
r) Decomposition temperature	No data available
s) Viscosity, dynamic	No data available
t) Explosive properties	No data available



Version 1.0 Revision Date 18.12.2020

u) Oxidizing characteristics

No data available

# **SECTION 10**

## Stability and reactivity

Reactivity

No dangerous reactions with proper and storage and handling.

#### Chemical stability

Stable under normal conditions.

**Possibility of hazardous reactions** None.

**Conditions to avoid** Protect from heat and direct sunlight.

Incompatible materials None.

Hazardous decomposition products None.

# **SECTION 11**

Toxicological information

**Toxicological effects** No toxic effects are known under normal conditions from inhalation of dust or vapours from this product.

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# SAFETY DATA SHEET SUPERSHIELD EPL 100

Version 1.0 Revision Date 18.12.2020

# **SECTION 12**

## **Ecological information**

#### Toxicity

Polyepsilon-lysine (Poly- $\epsilon$ -Lysine) is believed not to be dangerous to the environment with respect to mobility, persistency and degradability, bioaccumulative potential, aquatic toxicity and other data relating to ecotoxicity.

# **SECTION 13**

## **Disposal considerations**

#### Waste treatment methods

#### Product

Dispose of waste according to applicable legislation.

#### **Contaminated packaging**

Dispose of waste according to applicable legislation.

# **SECTION 14**

## Transport information

UN number			
ADR/RID: -		IMDG: -	IATA: -
UN proper	shipping name		
ADR/RID:	Not regulated		
IMDG:	Not regulated		
IATA:	Not regulated		
Transport hazard class(es)			
ADR/RID: -		IMDG: -	IATA: -
Packaging group			



Version 1.0 Revision Date 18.12.2020

ADR/RID: -	IMDG: -	IATA: -
Environmental hazards		
Marine pollutant: -		
Special precautions for user		
None. Not classified as dangerou	s goods according to FDA and WHO.	
Transport in bulk according to Annex II of Marpol and the IBC Code		
No data available.		

# **SECTION 15**

#### **Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Not applicable.

**Chemical safety assessment** Not applicable.

## **SECTION 16**

#### Other information

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