

## SECTION 1

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

#### Product Information

<b>Product Name</b>	Supershield PL 100
<b>INCI Name</b>	Polylysine
<b>CAS No.</b>	25104-18-1

#### 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

Polylysine was found to be non-toxic at high levels in acute animal studies and was not mutagenic in bacterial reversion assays. Polylysine 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

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**Labelling (CLP)****Pictogram**

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.
Polylysine	≥ 95.0%	25104-18-1
Ash	≤ 3.0%	-
Lead	≤ 1 mg/kg	-
Arsenic	≤ 1 mg/kg	-

**SECTION 4**

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***First aid measures*****Description of first aid measures**

<b>Inhalation</b>	Move victim to fresh air if discomfort is felt.
<b>Skin contact</b>	Wash with soap and water if necessary.
<b>Eye contact</b>	Rinse with plenty of water.
<b>Ingestion</b>	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.

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**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.

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**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

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**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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**SECTION 12*****Ecological information*****Toxicity**

Polylysine 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***

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

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<b>Environmental hazards</b>
Marine pollutant: -
<b>Special precautions for user</b>
None. Not classified as dangerous goods according to FDA and WHO.
<b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>
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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