

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Starclear**

polyvinylpyrrolidone

**CAS No.:** 25249-54-1  
**EC No.:** 618-363-4  
**INDEX No.:** not relevant  
**REACH No.:** Do not require registration

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Relevant identified uses:** The product is intended for professional use.

**Uses advised against:** not relevant

**1.3. Details of the supplier of the safety data sheet****Supplier (manufacturer)**

Star-Tech &amp; JRS Specialty Products Co.,Ltd.

No.1, Huanan Road

Changshou District

Chongqing

China

**Telephone:** +86 23 6302 6003**Telefax:** +86 23 6898 1156**Information contact**

Information

**Information telephone:** +86 23 6302 6003**Information telefax:** +86 23 6898 1156**E-mail (competent person):** [marketing@chinassp.net](mailto:marketing@chinassp.net)**Website:** [www.chinassp.net/en](http://www.chinassp.net/en)**1.4. Emergency telephone number****Telephone:** +86 23 6898 1156**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Regulation (EC) No. 1272/2008: not relevant

**2.2. Label elements****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

not relevant

**2.3. Other hazards**

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

In case of fire may be liberated: Carbon monoxide. Carbon dioxide. Nitrogen oxides (NO<sub>x</sub>)

May cause respiratory irritation.

Special danger of slipping by leaking/spilling product.

Damage can be caused through mechanical influence of the product (e.g. sticking).

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

Substance related information  
Polyvinylpyrrolidone  
CAS No.: 9003-39-8  
EC No.: 618-363-4  
INDEX no.: not relevant

### 3.2. Mixtures

#### Composition/information on ingredients

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):
not relevant	not relevant	not relevant	not relevant	not relevant	not relevant	not relevant

#### Substance with a common (EC) occupational exposure limit value

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):
not relevant	not relevant	not relevant	not relevant	not relevant	not relevant	not relevant

(Full text of H- and EUH-phrases: see section 16.)

#### Additional information

not relevant

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information:** When in doubt or if symptoms are observed, get medical advice.  
**Following inhalation:** Provide fresh air.  
**Following skin contact:** After contact with skin, wash immediately with plenty of water and soap.  
In case of skin irritation, consult a physician.  
**After eye contact:** Rinse immediately carefully and thoroughly with eye-bath or water.  
In case of eye irritation consult an ophthalmologist.  
**After ingestion:** Rinse mouth immediately and drink plenty of water.  
**Self-protection of the first aider:** not relevant

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

**Symptoms:** No known symptoms to date.  
**Nature of Hazard:** May cause respiratory irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes for the doctor:** Treat symptomatically.  
**Special treatment:** Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:** Carbon dioxide (CO<sub>2</sub>). Foam. Extinguishing powder.  
**Unsuitable extinguishing media:** Water

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

In case of fire may be liberated: Carbon monoxide. Carbon dioxide. Nitrogen oxides (NO<sub>x</sub>)  
Danger of dust explosion.  
Special danger of slipping by leaking/spilling product.

### 5.3. Advice for firefighters

#### General information

Coordinate fire-fighting measures to the fire surroundings.

#### Special protective equipment for firefighters:

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Fire class A (Fires of solids, mainly organic nature, which normally burn down under glow forming).

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## SECTION 6: Accidental release measures

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

For non-emergency personnel:

Special danger of slipping by leaking/spilling product.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

For emergency responders:

See protective measures under point 7 and 8.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

Take up mechanically.

Avoid generation of dust.

Avoid contact with water.

### 6.4. Reference to other sections

Disposal: see section 13.

Personal protection equipment: see section 8

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advices on safe handling

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

It is recommended to design all work processes always so that the following is excluded:

Inhalation of dust/particles

#### Technical measures

During filling, metering and sampling should be used if possible:

Devices with local exhaust

Dust should be exhausted directly at the point of origin.

#### Precautions against fire and explosion

The product is: Combustible.

Danger of dust explosion.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Have fire-extinguishers in readiness before opening containers.

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**Additional information**

Avoid generation of dust.  
 Shafts and sewers must be protected from entry of the product.  
 Recommendations for handling:  
 210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 240 Ground/bond container and receiving equipment.  
 241 Use explosion-proof electrical/ventilating/lighting equipment.  
 280 Wear protective gloves/protective clothing/eye protection/face protection.

**7.2. Conditions for safe storage, including any incompatibilities**

**Technical measures and storage conditions**

not relevant

**Packaging materials**

not relevant

**Requirements for storage rooms and vessels**

not relevant

**Hints on joint storage**

Storage class: 11 Combustible solids.

**Further information on storage conditions**

Protect against: Humidity, UV-radiation/sunlight.  
 Storage temperature: not relevant  
 Relative air humidity (%): not relevant  
 Storage stability: at least 3 years  
 Maximum storage period (time): not relevant

**7.3. Specific end use(s)**

not relevant

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limit value**

Substance:	CAS-No.:	Source:	Occupational Exposure limits value:	Limitation of exposure peaks:	Remark:
Respirable dust	not relevant	not relevant	3 mg/m <sup>3</sup> (respirable particles) 10 mg/m <sup>3</sup> (inhalable particles) 5 mg/m <sup>3</sup> (respirable dust fraction) 15 mg/m <sup>3</sup> (Total dust)	not relevant	TVL-TWA US ACGIH  TWA US OSHA

**Substance with a common (EC) occupational exposure limit value**

Substance:	CAS-No.:	Source:	Occupational exposure limit value:	Limitation of exposure peaks:	Remark:
not relevant	not relevant	not relevant	not relevant	not relevant	not relevant

**DNEL-/PNEC-values**

**DNEL value**

Substance:	CAS-No.:	DNEL/DMEL	Industry	Professional	Consumer
not relevant	not relevant	not relevant	not relevant	not relevant	not relevant

**PNEC Value**

Substance:	CAS-No.:	PNEC	Limit value:	Remark:
not relevant	not relevant	not relevant	not relevant	not relevant

**Risk management measures according to used control banding approach**  
not relevant

**Additional information**  
not relevant

## 8.2. Exposure controls

### Occupational exposure controls

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

### General protection and hygiene measures

Wash hands before breaks and after work.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

### Personal protection equipment

Technical measures and the application of suitable work processes have priority over personal protection equipment.

### Respiratory protection

Suitable respiratory protection apparatus: Filtering Half-face mask (DIN EN 149)

Half-face mask or quarter face piece: maximum use concentration for substances with exposure limits:

P1 filter: up to a max. of 4 times the exposure limit.

P2 filter: up to a max. of 10 times the exposure limit.

P3 filter: up to a max. of 30 times the exposure limit.

The filter class must be suitable for the maximum contaminant concentration

(gas/vapour/aerosol/particulates) that may arise when handling the product.

If the concentration is exceeded, self-contained breathing apparatus must be used!

### Hand protection

Hand protection is not required

### Eye/face protection

Dust protection eye glasses.

### Body protection

Body protection: not applicable.

### Environmental exposure controls

See chapter 7. No additional measures necessary.

### Consumer exposure controls

not relevant

### Exposure Scenario

not relevant

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

**Physical state:** Powder or flakes

**Colour:** white or whitish

**Odour:** odourless

**Odour threshold:** not relevant

Safety relevant basis data Parameter	Unit	Remark
Density:		not determined
Bulk density:		not determined
pH:	5.0 – 8.0	
Melting point/freezing point:		not relevant
Initial boiling point and boiling range:		not relevant
Flash point:		not determined
Flammability (solid, gas):		not relevant
Explosivity:		Dust explosive
Lower explosion limit:		not determined
Upper explosion limit:		not determined
Ignition temperature:		No data available
Decomposition temperature:		No data available
Oxidizing potential:		not oxidizing.
Vapour pressure:		not determined
Vapour density:		not determined
Evaporation rate:		not determined
Water solubility:		insoluble
Fat solubility:		insoluble
Soluble in:		not relevant
Partition coefficient n-octanol/water:		No data available
Viscosity:		not relevant
Solvent separation test:		not relevant
Solvent content:		not relevant

## 9.2. Other information

not relevant

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

not relevant

### 10.2. Chemical stability

not relevant

### 10.3. Possibility of hazardous reactions

not relevant

### 10.4. Conditions to avoid

Avoid generation of dust.

Avoid contact with water.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

### 10.5. Incompatible materials

Oxidising agent, strong

Reducing agent, strong

### 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx)

#### Additional information

not relevant

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

not relevant

#### Acute toxicity

Substance:	CAS-No.:	Toxicological information
Polyvinylpyrrolidone	9003-39-8	LD50: >2000mg/kg (rat)

#### Specific symptoms in laboratory animals

No information available.

#### Irritation and etching

##### Irritant effect on the skin

Not an irritant.

##### Irritant effect on the eye

Not an irritant.

##### Irritant effect on the respiratory tract

slightly irritant but not relevant for classification.

#### Caustic

not corrosive

#### Sensitization

not sensitising.

#### Repeated dose toxicity (subacute, subchronic, chronic)

not relevant

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

##### Carcinogenicity

not relevant

##### Germ cell mutagenicity

not relevant

##### Reproductive toxicity

not relevant

#### General remarks

Damage can be caused through mechanical influence of the product (e.g. sticking).

#### Practical experience/human evidence

No information available.

#### Other observations

not relevant

#### Other information

not relevant

## SECTION 12: Ecological information

### 12.1. Toxicity

not relevant

#### Eco toxicity

Substance:	CAS-No.:	Eco toxicity
not relevant	not relevant	not relevant

### 12.2. Persistence and degradability

not readily biodegradable (according to OECD criteria)

### 12.3. Bio accumulative potential

No indication of bioaccumulation potential.

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

### 12.6. Other adverse effects

not relevant

#### Further ecological information

Do not allow uncontrolled discharge of product into the environment.

#### Further details

not relevant

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Appropriate disposal/Product

Dispose of waste according to applicable legislation.

#### Appropriate disposal / Package

Non-contaminated packages may be recycled.

#### List of proposed waste codes/waste designations in accordance with EWC

**Waste code product:** 07 01 99 - wastes not otherwise specified

**Waste code packaging:** 15 01 06 - mixed packaging

#### Remark

The allocation of waste identity numbers/waste descriptions must be carried out according to the EWC, specific to the industry and process.

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## SECTION 14: Transport information

### 14.1. UN number

not relevant

### 14.2. UN proper shipping name

not relevant

### 14.3. Transport hazard class(es)

not relevant

### 14.4. Packing group

not relevant

### 14.5. Environmental hazards

not relevant

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#### 14.6. Special precautions for user

##### Land transport (ADR/RID)

Remark: No dangerous good in sense of this transport regulation.

##### Sea transport (IMDG)

Remark: No dangerous good in sense of this transport regulation.

##### Lufttransport (ICAO-TI / IATA-DGR)

Remark: No dangerous good in sense of this transport regulation.

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remark: not relevant

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### SECTION 15: Regulatory information

#### Labelling

##### Hazardous component(s) for labelling

not relevant

##### Special labelling of particular preparations

not relevant

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU legislation

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

not relevant

Regulation (EC) No 2037/2000 concerning materials, which cause damage to the ozone layer.

not relevant

Regulation (EC) No. 648/2004 (Detergents regulation)

not relevant

##### National regulations

Observe in addition any national regulations!

##### Restrictions of occupation

not relevant

##### Storage class

11 Combustible solids.

##### Water hazard class (WGK)

Slightly hazardous to water (wgk 1)

##### Other regulations, restrictions and prohibition regulations

not relevant

#### 15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### Relevant H- and EUH-phrases (Number and full text)

not relevant

### Training advice

not relevant

### Recommended restrictions of use

not relevant

### Further remarks

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge.

The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal.

The information cannot be transferred to other products.

In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

### Documentation of changes

| Data changed compared with the previous version

### Key literature references and sources for data

Data arise from reference works and literature.

GESTIS- substances data base

Regulation (EC) 1272/2008 [CLP]

### Abbreviations and acronyms

EWC = European Waste Catalogue

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