

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 2024.12.17

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

## Starind K90 20%S

Polyvinylpyrrolidone

CAS No.:9003-39-8EC No.:618-363-4INDEX No.:not relevantREACH 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<br/>Supplier (manufacturer)<br/>Star-Tech & JRS Specialty Products Co., Ltd.<br/>No.1, Huanan Road<br/>Changshou DistrictTelephone: +86 23 6302 6003<br/>Telefax: +86 23 6898 1156ChongqingTelefax: +86 23 6898 1156

China

Information contact Information

Information telephone: +86 23 6302 6003 Information telefax: +86 23 6898 1156 E-mail (competent person): marketing@chinassp.net/en Website: 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.

May cause respiratory irritation.

Damage can be caused through mechanical influence of the product (e.g. sticking). Special danger of slipping by leaking/spilling product.

#### **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:<br>EC 1272/2008 (CLP): |
|--------------|--------------|--------------|--------------|--------------|----------------|--|
| not relevant   | not relevant                           |

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

| Substance:   | EC-no.:      | CAS-No.:     | INDEX no.:   | REACH-no.:   | Concentration: | Classification:<br>EC 1272/2008 (CLP): |
|--------------|--------------|--------------|--------------|--------------|----------------|--|
| 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:<br>Following inhalation: | When in doubt or if symptoms are observed, get medical advice.<br>Provide fresh air.   |
|---|--|
| Following skin contact:                       | When in doubt or if symptoms are observed, get medical advice.<br>After contact with skin, wash immediately with plenty of water and soap.<br>In case of skin irritation, consult a physician. |
| After eye contact:                            | Rinse immediately carefully and thoroughly with eye-bath or water.<br>In case of eye irritation consult an ophthalmologist.  |
| After ingestion:                              | Rinse mouth immediately and drink plenty of water.<br>When in doubt or if symptoms are observed, get medical advice.   |

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 (NOx) 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).

#### **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

#### **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.

#### 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<br>limits value:  | Limitation of<br>exposure peaks: | Remark:                         |
|-----------------|--------------|--------------|---|----------------------------------|---------------------------------|
| Respirable dust | not relevant | not relevant | 3 mg/m <sup>3</sup><br>(respirable particles)<br>10 mg/m <sup>3</sup><br>(inhalable particles)<br>5 mg/m <sup>3</sup><br>(respirable dust fraction)<br>15 mg/m <sup>3</sup><br>(Total dust) | not relevant                     | TVL-TWA US ACGIH<br>TWA US OSHA |

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

| Substance:   | CAS-No.:     | Source:      | Occupational<br>exposure limit value: | Limitation of<br>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 |
|              |              |              |              |              |              |

#### **PNEC** Value

| Substance:   | CAS-No.:     | PNEC         | Limit value: | Consumer     |
|--------------|--------------|--------------|--------------|--------------|
| 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

#### **SECTION 9: Physical and chemical properties**

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

Appearance Physical state: Color: Odor: Odor threshold:

Liquid Clear and colorless to slightly yellowish No smell or slightly characteristic odor not relevant

| Safety relevant basis data<br>Parameter | Unit      | Remark            |
|---|-----------|-------------------|
| Density:                                |           | not determined    |
| Bulk density:                           |           | not determined    |
| pH:                                     | 7.0 – 9.0 |                   |
| Melting point/freezing point:           |           | not relevant      |
| Initial boiling point and boiling       |           | not relevant      |
| range:                                  |           |                   |
| 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:                       |           | soluble           |
| Fat solubility:                         |           | soluble           |
| 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

Oxidizing agent, strong Reducing agent, strong

#### **10.6.** Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). 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 effect not corrosive

Sensitization

not sensitizing.

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

#### **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 specifiedWaste 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.

#### **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

#### 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

#### **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)

weak water pollutant (WGK 1)

#### Other regulations, restrictions and prohibition regulations

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

#### 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