



## Safety Data Sheet of hydrophilic products

NO.GBS20180108

### 一、 Product and company identification

|   |
|---|
| Manufactured by: Yichang Huifu Silicon Material Co. ,Ltd.   |
| Corporate address: no .66-2, xiaoting avenue,xiaoting district, yichang city ,hubei province ,china |
| Manufacturer's telephone:+8620-89850560 (Monday – Friday, 8AM-5 PM UTC/GMT+8)                       |
| FAX:+862082519070   |
| Consulting <a href="tel:+862089850560">tel:+8620 89850560</a>                                       |
| Email address:hifullxs@hifull.com   |
| Material/trade/product name: Hydrophilic Products HL-150,HL-200,HL-300,HL-380                       |
| Product use :Antiblocking Agents ,powder coating,catalyst   |

|                         |                  |                  |           |
|-------------------------|------------------|------------------|-----------|
| molecular formula       | SiO <sub>2</sub> | molecular weight | 60.08     |
| Chemical classification |                  | CAS No.          | 7631-86-9 |
| Hazard classification   |                  |                  |           |

### 二、 Hazards identification

|                                    |  |
|------------------------------------|--|
| Hazards identification             | On the basis of our data the product is not a hazardous substance as defined by the Chemicals Act or Hazardous Substance Ordinance in the currently valid versions.  |
| Route of entry or possible contact | Eyes, skin, inhalation   |
| Acute health effects               | <p>Eye contact: No acute toxic effects are expected. Slight irritation by mechanical effects is possible.</p> <p>Skin contact: No acute toxic effects are expected. Temporary discomfort like feeling of dryness on the skin.</p> <p>Inhalation: No acute toxic effects are expected. May cause physical discomfort to the respiratory tract.</p> <p>Not mutagenic in different in-vitro and in-vivo test systems. A long term exposure exceeding TLV can lead to damaging effect as a result of mechanical overloading of the respiratory tract. Chronic respiratory exposure: Changes in respiratory organs observed in animal experiments (inflammatory processes) were reversible; no indication of silicosis. Animal tests have shown no indication to carcinogenic or to reproduction effects.</p> |

### 三、 Composition/information on ingredients

|                               |   |
|-------------------------------|---|
| Chemical characteristics      | Pyrogenic micro-dispersed silica, synthetic X-ray amorphous silicon dioxide (SiO <sub>2</sub> ) |
| Appearance                    | White solid - powder, odorless  |
| Use of substance /preparation | Industrial Auxiliary agent for: Plastics, Lacquer, Adhesive, Elastomer products                 |

#### 四、First-aid measures

|                             |   |
|-----------------------------|---|
| After contact with the eyes | If contact with eyes, immediately flush eyes with plenty of water, get medical attention if symptoms occur. |
| After contact with the skin | If contact with skin, wash skin with plenty of water or with water and soap.                                |
| After swallowing            | Drink plenty of water. Get medical attention if symptoms occur. Show label if possible.                     |
| After inhalation            | If inhaled, remove to fresh air. Get medical attention if symptoms occur. Show label if possible.           |
| The possible symptom        |   |

#### 五、Fire-fighting measures

|                                    |  |                           |                |
|------------------------------------|--|---------------------------|----------------|
| Flammable properties               | Material does not burn   |                           |                |
| Lower explosion limit (LEL) (Vol%) | not applicable   | Flash point (°C)          | not applicable |
| Upper explosion limit (UEL) (Vol%) | not applicable   | ignition temperature (°C) | not applicable |
| Fire and explosion hazards         | Electrostatic charging is possible. Ensure all parts of equipment are well earthed. Use inert gas when working with combustible and explosive liquids. |                           |                |
| extinguishing agent                | Material does not burn. Use extinguishing measures appropriate to the source of fire.  |                           |                |

#### 六、Accidental release measures

|                          |  |
|--------------------------|--|
| Precautions              | Avoid dust formation. Do not breathe dust. Cover any spilled material in accordance with regulations to prevent dispersal by wind. |
| Fire fighting procedures | Fire fighters should wear full protective clothing including a self-contained breathing apparatus.                                 |
| Environmental measures   | In accordance with the local related regulatory.   |
| Methods for cleaning up  | Damp down dust and fill into containers.   |

## 七、 Handling and storage

|                               |  |
|-------------------------------|--|
| Precautions for safe handling | Avoid dust formation/ vapor/mist/gas/aerosol。 Avoid contacting with the skin and the eyes. When be handling don't eat drink or smoke. Keep container dry and tightly closed. Avoid dust deposit. Electrostatic discharge possible during transport and processing. Take precautionary measures against electrostatic charging. |
| Precautions for storage       | Avoid dust deposit, remove dust regularly.   |

## 八、 Exposure controls and personal protection

|  |  |                     |
|--|--|---------------------|
| Plant healthy                          | China MAC(mg/m3)   | 2mg/m <sup>3</sup>  |
|  | The USA TVL-TWA  | 10mg/m <sup>3</sup> |
|  | The USA TLV-STEL   | 3mg/m <sup>3</sup>  |
| Engineering controls                   | Use only with adequate ventilation .need Local exhaust ventilation, To maintain concentration below TLV. |                     |
| Respiratory protection                 | In case of dust formation: A NIOSH approved particulate respirator with a P95 or higher rating.          |                     |
| Eye protection                         | Recommendation: Safety glasses with side shields or chemical safety goggles                              |                     |
| Body protection                        | Avoid to contact with skin   |                     |
| Hand protection                        | Recommendation: rubber gloves  |                     |
| Other protective clothing or equipment | Wear antistatic clothes and boot. Barrier cream may be used to prevent dryness of skin.                  |                     |

## 九、 Physical and chemical properties

|                                |                             |   |                          |
|--------------------------------|-----------------------------|---|--------------------------|
| Melting point (°C)             | 1700                        | Boiling point/the range of Boiling point (°C) |                          |
| Density                        | 2.2g/cm <sup>3</sup> (20°C) | Bulk density                                  | 30-100 kg/m <sup>3</sup> |
| pH-Value                       | 3.6-5.6                     |   |                          |
| Water solubility / miscibility | Virtually insoluble at 20 ° |   |                          |
| Enthalpy (kJ/mol)              |                             | Decomposition temperature (°C)                | > 150                    |
| Critical temperature (°C)      |                             | Critical press (MPa)                          |                          |

## 十、 Stability and reactivity

|                     |  |                          |            |
|---------------------|--|--------------------------|------------|
| Stability           | Stable at room temperature and standard atmosphere | Hazardous polymerization | None known |
| Conditions to avoid | None known   |                          |            |

|                       |            |
|-----------------------|------------|
| Materials to avoid    | None known |
| Decomposition product | None known |

### 十一、 Toxicological information

|                          |                  |   |                 |                |
|--------------------------|------------------|---|-----------------|----------------|
| Acute toxicity           | LD <sub>50</sub> | Oral: > 5000mg/kg (rat)<br>by inhalation: > 0.477mg/l/4h (rat)  | Mutagenicity    |                |
|                          | LC <sub>50</sub> | None dead rate at technical max. concentration(rabbit)  |                 |                |
| Thrill                   |                  | Experience with rabbit: not irritating to eyes and shin.<br>Experience with man: By prolonged contact with the product no damage to health was observed Repeated exposure may cause skin drying and cracking.   | Teratogenicity  |                |
| Irritability             |                  |   | Carcinogenicity | Not classified |
| Chronic toxicity         |                  | Not mutagenic in different in-vitro and in-vivo test systems. A long term exposure exceeding TLV can lead to damaging effect as a result of mechanical overloading of the respiratory tract. Chronic respiratory exposure: Changes in respiratory organs observed in animal experiments (inflammatory processes) were reversible; no indication of silicosis. Animal tests have shown no indication to carcinogenic or to reproduction effects. |                 |                |
| Other toxicological data |                  |   |                 |                |

### 十二、 Environmental information

|                      |   |
|----------------------|---|
| General notification | Not applicable to Biodegradation No harmful effects to environment. Can be removed mechanically from waste water. |
|----------------------|---|

### 十三、 Disposal considerations

|                                 |   |
|---------------------------------|---|
| Product disposal Recommendation | After solidification, material can be stored together with domestic waste. Observe local/state regulations. Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local regulations. |
| Note to disposal                |   |

### 十四、 Transport information

|                        |                                      |                |      |
|------------------------|--------------------------------------|----------------|------|
| Hazard No.             | None                                 | UN NO.         | None |
| Packing classification | Wooden fumigation Pallet or Bags     | Packing symbol | GBS  |
| Packing measure        | 115cm*115cm*235cm Or 110cm*55cm*35cm |                |      |
| DOT(US)                | Not dangerous goods                  |                |      |

|      |                     |
|------|---------------------|
| IMCG | Not dangerous goods |
| IATA | Not dangerous goods |

**十五、Regulatory information**

|                        |   |
|------------------------|---|
| Regulatory information | Not classified as dangerous in the meaning of transport regulations |
|------------------------|---|

**十六、Other information**

|            |                      |
|------------|----------------------|
| Reference  |                      |
| Time       | 2018-01-08           |
| Department | Technique Department |
| Tabulator  | David                |