

# EC-Material Safety Data Sheet

according to EC-direction 2001/58/EC  
for the product line

## Anti set-off spray powder S5



reviewed on

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<p><b>1 Identification of substance</b></p> <p><b>1.1 Identification – trade name</b> <b>Anti set-off spray powder S5</b> <b>available in grain sizes 15 - 16 - 20 - 22 - 30 - 45</b></p> <p><b>1.2 Usage of substance</b> Spacer between freshly printed sheets in the stack. The powder prevents the setting-off on the reverse side of the printed matter and enables a fast drying of the ink.</p> <p><b>1.3 Company's name – manufacturer</b> <b>KSL staubtechnik gmbh</b> Westendstrasse 11, D-89415 Lauingen, Germany Telephone ++49 / (0) 9072 95000 Telefax ++49 / (0) 9072 950050</p> <p><b>1.4 Emergency phone – please see 1.3.</b></p>	<p>continued from point 6</p> <p><b>Cleaning procedures</b> In case of unintentional release wipe-up mechanically and clean with water, if necessary.</p> <p><b>7 Handling and storage</b></p> <p><b>7.1 Handling</b> Avoid formation and deposition of dust. Take measures against electrostatic charge, avoid sparking.</p> <p><b>7.2 Storage</b> Keep containers shut and store at a dry place. Grade of storage: LGK - Lagerklasse 11 (VCI) – combustible solid material</p> <p><b>7.3 Special usage</b> Appropriate and economical application in suitable spraying devices (depending on the kind of work).</p>																				
<p><b>2 Composition / Data of components</b></p> <p><b>Chemical characterization</b> Native starch C<sub>6</sub>H<sub>10</sub>O<sub>5</sub></p> <p><b>Health hazardous substances</b> None</p> <p><b>Ratings/symbols/R-clauses</b> None</p> <p><b>EINECS-Number:</b> 232-679-6 <b>CAS-Number:</b> 9005-25-8</p>	<p><b>8 Exposure controls and personal protection</b></p> <p><b>Technical measures</b> See point 7.1 – please follow explosion protection.</p> <p><b>8.1 Exposure limit value *</b> General exposure limit of dust: Part of dust, which can be inhaled: max. 10,0 mg/m<sup>3</sup> Part of dust, which can be inhaled into pulmonary alveolus: max. 3,0 mg/m<sup>3</sup></p> <p><b>8.2 Exposure limit and control</b> <b>Respiratory protection</b> Breathing-mask is necessary in case of heavy formation of dust. Protecting equipment for eyes, hands or body is not necessary.</p>																				
<p><b>3 Hazards identification</b> Identification of hazards is not necessary. Danger of explosion as dust-air-mixture.</p>	<p><b>9 Physical and chemical properties</b></p> <table><tr><td><b>Appearance</b></td><td>white powder</td></tr><tr><td><b>Smell/Odour</b></td><td>neutral</td></tr><tr><td><b>Change of state</b></td><td>none</td></tr><tr><td><b>pH-value</b></td><td>4 – 7 (60 g in 100 ml H<sub>2</sub>O, 20° C)</td></tr><tr><td><b>Bulk density (depending on grain size)</b></td><td>600-900 kg/m<sup>3</sup></td></tr><tr><td><b>Solubility</b> - Water solubility</td><td>insoluble if used correctly</td></tr><tr><td><b>Explosive limits</b></td><td></td></tr><tr><td>Ignition temperature</td><td>approx. 500° C (dust-air-mix)</td></tr><tr><td>Lower explosion limit</td><td>ca. 60 g/m<sup>3</sup></td></tr><tr><td>Grade of dust explosion</td><td>St 1</td></tr></table> <p><b>Additional remarks</b> No decomposition if used correctly. Reference to further reading "Brenn- und Explosionskenngrößen von Stäuben" Erich Schmidt Verlag, Germany Bielefeld 1987</p>	<b>Appearance</b>	white powder	<b>Smell/Odour</b>	neutral	<b>Change of state</b>	none	<b>pH-value</b>	4 – 7 (60 g in 100 ml H <sub>2</sub> O, 20° C)	<b>Bulk density (depending on grain size)</b>	600-900 kg/m <sup>3</sup>	<b>Solubility</b> - Water solubility	insoluble if used correctly	<b>Explosive limits</b>		Ignition temperature	approx. 500° C (dust-air-mix)	Lower explosion limit	ca. 60 g/m <sup>3</sup>	Grade of dust explosion	St 1
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<p><b>4 First-aid measures</b></p> <p><b>After eye contact</b> Rinse eyes with plenty of water.</p> <p><b>After skin contact</b> Clean with water.</p> <p><b>After inhalation</b> It is necessary to consult medical attention immediately.</p> <p><b>After swallowing</b> No measures necessary. In case of any irritation, it is advisable to consult medical attention.</p>																					
<p><b>5 Fire-fighting measures</b></p> <p><b>Suitable extinguishing agents</b> In case of general burning spray with water, if necessary with foam.</p> <p><b>Unsuitable extinguishing agents</b> Extremely spraying of water, CO<sub>2</sub>. Danger of explosion as dust-air-mixture. In case of fire-fighting wear breathing-mask as protective equipment.</p>																					
<p><b>6 Accidental release measures</b></p> <p><b>Person-related safety precautions</b> Avoid heavy formation of dust, wear breathing-mask, if necessary.</p> <p><b>Measures for environmental protection</b> No direct discharge of aqueous suspensions in waters.</p>																					

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### 10 Stability and reactivity

#### Conditions to be avoided

Temperatures > 100° C

#### Materials to be avoided

Avoid contact with oxidizer.

#### Hazardous decomposition products

In case of sufficient air supply the product will be converted into CO<sub>2</sub> and water.

### 11 Toxicological information

Product is foodstuff, therefore toxicological tests are not necessary.

### 12 Ecological information

The product can be degraded/eliminated biochemical in good manner.

### 13 Disposal considerations

#### Recommendation for material and packaging

Taking into consideration the local authority regulations, the product can be disposed together with household waste. The packaging is recyclable.

#### Waste disposal key number according to waste listing regulation (German: AVV)

AVV-Code: 0203 – waste of the processing of fruit, vegetables, cereals, edible oils, cocoa, coffee, tobacco and canning.

### 14 Transport information

Product is no dangerous product at any mode of transport.

### 15 Regulations

#### Marking

No marking required.

R-clauses respectively S-clauses are not necessary.

#### National regulations

Water hazard class (WGK – Wassergefährdungsklasse) – product is foodstuff.  
"Foodstuff is not classified on principle".

Instructions listed by our suppliers of raw material:

"Regulations for starch according to BLL of 22.10.1975"

"Electrical plants in explosive areas/rooms, please see ElexV of 13.12.1996, section 3"

"Combustion and explosion protection, see Ex-RL, RL-static electricity-DIN 57165/VDE0165, VDI 2262/2263".

In general precautions have to be taken to prevent accidents (German UVV) and to take care of the official working regulations.

### 16 Other information

#### Status of registration

##### Europe/European Community:

CAS-Number 9005-25-8.

EINECS listed under 232-679-6.

##### USA:

Listed in the TSCA Inventory.

#### Further information

The suggestions and data provided herewith are based on the present state of our knowledge. The information is not to be considered as a guarantee of the product's properties and does not create any legal relationship.

The Material Safety Data Sheet is only an informational literature for the user.

It was made under maximum care, any responsibility for the accuracy of the information or any liability for the consequences of any printing, setting or transmission errors cannot be accepted.

In view of the most important data and the technical information we refer to our suppliers resp. manufacturers of the raw materials.

In case of doubt our German version of the Material Safety Data Sheet will be valid, as we will not be responsible of any translation.

Anti set-off spray powder S5 can be used in the production of foodstuff packaging without any objection.

No antibiotics, bactericides or fungicides are used in our production.

We have updated this data sheet according to direction 2001/58/EC (\* see modifications) for our customers although native starch is not dangerous in the meaning of the official regulations for hazardous goods (GefStoffV/ChemG).

Native starch is foodstuff.