

# Safety data sheet

Pursuant to regulation (EC) no. 1907/2006

Trade name: product from native starch

Revised: 08/07/2009

Date printed : 04/12/2012

Version: 338-4

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## **1. Relationship of the material and/or the formulation and trade name**

### **Trade name**

**S5WL in the graduations 15-16-20-22-30-45**

### **Material use / Formulation**

Separating and test dust

### **Manufacturer / Supplier**

KSL Staubtechnik GmbH

### **Street/PO Box/ country code/zip/city**

Westendstrasse 11  
D - 89415 Lauingen

### **Contact point for technical information**

Telephone +49 (0) 9072 / 95 00 - 0

### **Telephone / Telefax / E-mail**

+49 (0) 9072 / 95 00 - 0 / +49 (0) 9072 / 95 00 50 / info@ksl-staubtechnik.de

### **Emergency information**

+49 (0) 9072 / 95 00 - 0

## **2. Possible hazards**

### **Hazard indication**

None

### **Additional hazard notices for humans and the environment**

Dust explosion hazard with dust and air mixture

## **3. Summary/Details concerning components**

### **Chemical characterization**

Native starch product – C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>

**EC number: 232-649-6 CAS number: 9005-25-8**

### **Hazardous ingredients**

None

### **Substances with prescribed EC threshold values**

None

## **4. First aid measures**

### **General notices**

It is recommended that a doctor be consulted if symptoms occur. Inform physician of substance/product and measures taken.

### **After inhalation**

Get to fresh air. It is recommended that a doctor be consulted if symptoms occur.

### **After skin contact**

Wash off with water.

### **After eye contact**

Flush opened eye generously with water. It is recommended that a physician be consulted in case of irritation.

### **After swallowing**

Treat symptoms. It is recommended that a physician be consulted.

### **Details for physicians**

No data available.

## **5. Firefighting measures**

### **Appropriate extinguishing agents**

Water spray jets, alcohol resistant foam

### **Inappropriate extinguishing agents**

Powder and full water jet: danger of dust cloud formation

### **Special material-related hazard or the formulation itself, its combustion products or originating gases.**

Dust explosion hazard

### **Special protective gear for firefighting**

Ambient-air-independent breathing protection

### **Additional notices**

Take measures against electrostatic charge. Avoid dust formation.

## **6. Measures during unintended release**

### **Personnel-related precautions**

Use constant ventilation to avoid dust distribution in the air above the maximum workplace concentration. Use appropriate protective gear (see item B).

### **Environmental protection measures**

No direct introduction of aqueous suspensions into water bodies. Drinking water hazard possible only when very large quantities penetrate into subsoil and water; notify authorities.

### **Cleaning / collection procedures**

Vacuum or gather the material mechanically and collect in containers provided according to local regulations for disposal. Avoid generating dust.

### **Additional notices**

None

## **7. Handling and storage**

### **Notices concerning safe handling**

Avoid dust formation and deposit. Take measures against electrostatic charge.

### **Notices concerning fire and explosion protection**

None

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## Further notices

None

## Data concerning storage conditions

Store containers in dry area; not together with explosive and /or oxidizing materials.

## Storage area and container requirements

Store dry and sealed in original container if possible.

Storage class VCI : 11

## Intended uses

Convenient and economical application in appropriate powder devices depending on intended use

## 8. Limitation and monitoring of exposure / personal protective gear

### Exposure threshold values in the workplace and/or biological threshold values

#### Workplace threshold values (WTV) Germany

Specification: native starch product – C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>  
CAS number: 9005-25-8  
Value: see peak limit  
Peak limit: respirable dust content: max. 8.0 mg/m<sup>3</sup>  
alveolar dust content: max. 3.0 mg/m<sup>3</sup>

Tetratogenic: no

#### The European Union's occupational exposure limit values

Specification: not specified  
Short-term value (STEL): not specified  
Long-term value (8 h TWA): not specified  
"Skin" notice: see 11.

#### Limitation and monitoring of exposure

Recommended measuring procedures for workplace measurements: see workers' compensation publication series.

#### Personal protective gear

Personal protective gear is not required. Mechanical rubbing on the skin can be slightly irritating to sensitive individuals.

#### Breathing protection

Install effective aspiration and / or sufficient ventilation. A P1 breathing protection filter is to be worn during heavy dust generation.

#### Hand protection

None

#### Eye protection

Wear enclosed protective glasses during occurrence of heavy dust.

#### Body protection

None

#### Work hygiene details

Do not eat, drink or smoke in the workplace. Adhere to professional hygiene measures. Temporary skin protection with skin protection salve.

#### Environmental protection measures

See articles 6 and 7. No further measures necessary.

## 9. Physical and chemical properties

State of aggregation: powder  
Color: white to light yellow  
Odor: neutral  
Explosion hazard: explosive  
Lower explosion limit: 30 – 60 g/m<sup>3</sup> (source INERIS)  
Upper explosion limit: none specified  
dust explosion class: 1  
Vapor pressure: not applicable  
Specific density: 1.45 g/ml  
Powder density: 600 – 900 kg/m<sup>3</sup> depending on graduation  
Flow time: none specified  
Water solubility: insoluble  
Partition coefficient: none specified  
pH value: 5.0 – 7.0 (at 20° C)  
Boiling point/range: not applicable  
Melting point: not applicable  
Flashpoint: not applicable  
Ignition temperature: over approx. 460° C (dust/air mixture)  
Thermal dissociation: over 200° C

## 10. Stability and reactivity

### Conditions to avoid

Dampness, water, temperatures > 100° C

### Substances to avoid

Avoid contact with oxidizers.

### Hazardous dissociation products

None; dissociates into carbon monoxide and dioxide, water and oxygen

## 11. Toxicological details

No toxicological details are available for the product; it is a food product.

### Toxicological tests

No data available

### Experiences from practice

No data available

### Details concerning ingredients

No data available

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## **12. Environment-related details**

### **Eco-toxicity**

No eco-toxicity details are available for the product.

Fish toxicity: no data available

Aquatic invertebrates: no data available

Aquatic plants: no data available

### **Mobility and bioaccumulation potential**

No data available

### **Persistence and degradability**

Starch is biologically degradable.

### **PBT properties investigation result**

No data available

### **Other deleterious effects**

No data available

## **13. Notices concerning disposal**

### **Substance / Formulation**

Can be disposed of in compliance with local regulatory directives

### **Recommendation**

Arrange exact waste categories with the waste management company.

### **Waste categories pursuant to European waste index regulation (AVV / EWC)**

010410 – dust-producing and powdery wastes

### **Packaging**

150106 - mixed packaging appropriate for material recycling

### **Contaminated packaging**

150106 - mixed packaging appropriate for material recycling Can be disposed of in compliance with local regulatory directives

## **14. Transport details**

### **Ground transportation ADR/RID**

### **Sea-going vessel transportation IMDG/GGVSee**

### **Air transportation ICAO-TI and IATA-DGR**

The product is not dangerous on any transportation route.

## **15. Legal provisions**

### **Chemical safety assessment**

No safety assessments were carried out.

### **Designation according to EC directive**

### **The product's code letter(s) and hazard designation(es)**

### **Hazard-definitive components for labeling contain:**

#### **Precautionary statements:**

None

#### **EC regulations**

#### **National regulations**

The product fulfills national and international criteria, which are given on a separate supplemental sheet.

**Water hazard class:** not hazardous to water

**Technical instructions air (TI-air):** not mentioned

**Statutory order on hazardous incidents (12<sup>th</sup> ordinance on the implementation of the federal immission control act):**

not mentioned

**Solvent directive (31<sup>st</sup> ordinance on the implementation of the federal immission control act):**

not mentioned

#### **Occupational restrictions:**

none

## **16. Miscellaneous details**

### **Further applicable EC directives**

See item 15 – EU and national directives

### **Manufacturer recommended usage restrictions**

None

### **Hazard statements referred to in articles 2 and 3**

None

### **Miscellaneous notices**

We refer to the raw material supplier and/or manufacturer as the most important data and technical information sources. The product can be used without harm during the manufacturing of packaging units for comestibles. No antibiotics, bactericides, or fungicides are used during production.

### **Changes vis-à-vis the last issue**

Adaptation pursuant to REACH directive (EC) no. 1907/2006 although the product contains no hazardous substance in the sense of the directive.

### **Data sheet issuing area**

Quality management

The information is supported by the current state of our knowledge. It nevertheless does not represent a pledge of product properties and establishes no legal contractual relationship. This safety data sheet serves the user solely as an information carrier. It was compiled with the greatest care. A warranty for the correctness of the data or liability for the consequences of printing, compositor, or transcription errors cannot be accepted.