

Safety data sheet

Pursuant to regulation (EC) no. 1907/2006

Trade name: product from native starch

Revised: 08/07/2009

Date printed : 08/17/2009

Version: 338-4

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

Trade name

S5 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

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Contact point for technical information

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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 – C₆H₁₀O₅

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 – C₆H₁₀O₅

CAS number: 9005-25-8

Value: see peak limit

Peak limit: respirable dust content: max. 8.0 mg/m³

alveolar dust content: max. 3.0 mg/m³

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 ³ (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 ³ 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 (12th ordinance on the implementation of the federal immission control act):

not mentioned

Solvent directive (31st 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.