EC-Material Safety Data Sheet

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

Anti set-off spray powder K4

1 Identification of substance

1.1 Identification - trade name
Anti set-off spray powder K4 available in grain sizes 10 - 15 - 20 - 30 - 45 - 60 - 80

1.2 Usage of substance
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.

1.3 Company´s name – manufacturer
KSL staubtechnik gmbh
Westendstr. 11, D-89415 Lauingen, Germany
Telephone ++49 (0) 9072 95000
Telefax ++49 (0) 9072 950050

1.4 Emergency phone - please see 1.3

2 Composition / Data of components

Chemical characterization
Natural calcium carbonate - $CaCO_3$

Health hazardous substances
None

Ratings/symbols/R-clauses
None

EINECS-Number: 215-279-6
CAS-Number: 1317-65-3

3 Hazards identification

On basis of data available to us, pure natural calcium carbonate is not hazardous for man or environment.

4 First-aid measures

After eye contact
Rinse eyes with plenty of water, if irritation continues it is advisable to consult medical attention.

After skin contact
Wash with water.

After inhalation
Remove to fresh air, if irritation continues it is advisable to consult medical attention.

After swallowing
Symptomatic treatment, if irritation continues it is advisable to consult medical attention.

5 Fire-fighting measures

No measures necessary as product is not combustible.

6 Accidental release measures

Person-related safety precautions
In case of heavy formation of dust, wear breathing mask. Prevent contact with skin and eyes.

Measures for environmental protection
In case of unintentional release wipe-up mechanically and dispose on a registered refuse disposal site.
Avoid contact with acids.

7 Handling and storage

7.1 Handling
General precautions have to be observed in handling with chemicals.

7.2 Storage
Keep containers shut and store at a dry place.
Do not store together with acids.

7.3 Special usage
Appropriate and economical application in suitable spraying devices (depending on the kind of work).

8 Exposure controls and personal protection

8.1 Exposure limit value *

General exposure limit of dust:

Part of dust, which can be inhaled:
max. 10,0 mg/m³

Part of dust, which can be inhaled into pulmonary alveolus:
max. 3,0 mg/m³

8.2 Exposure limit and control

Respiratory protection
In case of heavy formation of dust, wear breathing-mask.

Protecting equipment for eyes, hands or body is not necessary.

9 Physical and chemical properties

Appearance	white powder
Smell/Odour	neutral/nonodorous
pH-value	8,5 - 9,5 (100 g/l at 20° C)
Boiling point	not applicable
Melting point	1340° C (102 bar)
Flash point	not applicable
Ignitability	not applicable
Spontaneous ignition	no spontaneous ignition
Explosion hazard	not explosive
Fire-supporting property	not applicable
Relative density	2.6 - 2.8 (20° C)
Solubility	
- solubility in water	0,014 g/l (20° C) 0,018 g/l (75° C)
- liposolubility	not applicable
Distribution coefficient (ratio)	
n-octanol/water	<1 (approx.)

Additional remarks
Thermal decomposition above 825° C into CaO and CO_2.

10 Stability and reactivity

Conditions to be avoided
No recommendation.

Materials to be avoided
Avoid contact with acids.

10 Stability and reactivity

Hazardous products of decomposition
A displacement of oxygen is possible by reaching with acids by formation of CaO and carbon-dioxide CO_2 (Danger of suffocation).

11 Toxicological information

Critical toxicology (oral)
LD_{50} oral, rat = > 5000mg/kg

Calcium carbonate is a rock of the earth's surface and in soluble state a natural and indispensable component of natural waters. In view of this fact chronic-toxic effects as well as sensitized effects can be excluded.

12 Ecological information

Calcium carbonate is in solid state a rock of the earth's surface. In dissolved state the substance is a natural and indispensable component of natural waters. Harmful effects for the environment can therefore be excluded.

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: 010410 – dusty or powdery waste

14 Transport information

Product is no dangerous product at any mode of transport.

15 Regulations

Marking
No regulations regarding identifying marking necessary.
R-clauses resp. S-clauses are not necessary.

National regulations
According to water law § 19A, § 19G calcium carbonate is classified as "not water hazardous".

16 Other information

Status of registration
Europe/European Community:
CAS - Number 1317-65-3.
EINECS listed under 215-279-6.
Switzerland:
No classified product under BAG-T No. 617 300.
USA:
Listed in the TSCA Inventory under CAS-Number 1317-65-3.
Calcium Carbonate/Limestone is listed in the FDA under § 184 1409 as GRAS (Generally Recognized As Safe).
Japan:
MITI registered under 1-122-122.
Australia:
ACOIN issue 92 listed under CAS-No.1317-65-3.
Canada:
Limestone is excluded from the listing in PDSL (naturally occurring substance).
The People's Republic of China:
CAS-Number 1317-65-3.
South Korea:
CAS-Number 1317-65-3.

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 for any translation.

Anti set-off spray powder K4 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 natural, grinded calcium carbonate is not dangerous in the meaning of the official regulations for hazardous goods (GefStoffV / ChemG).