

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Revision Date

27.01.2010

1. Identification of the substance/mixture and of the company/undertaking

Product information

Catalogue No.: 102059
Product name: Calcium carbonate 99,95 Suprapur®
Use of the Substance/Mixture: Auxiliary material for semiconductor industry
Company: Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0
Emergency telephone: Please contact the regional Merck representation in your country.
Responsible/issuing person: EQ-EPS * e-mail: prodsafe@merck.de

2. Hazards identification

This substance is not classified as dangerous according to European Union legislation.

3. Composition/information on ingredients

Formula	CaCO ₃	CCaO ₃ (Hill)
CAS-No.	471-34-1	
EC-No.	207-439-9	
Molar mass	100,09 g/mol	

4. First aid measures

After inhalation: fresh air.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water.

After swallowing: make victim drink water (two glasses at the most). Consult doctor if feeling unwell.

5. Fire-fighting measures

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards during fire fighting

Not combustible.

6. Accidental release measures

Personal precautions

Avoid inhalation of dusts.

Methods for cleaning up

Take up dry. Forward for disposal. Clean up affected area. Avoid generation of dusts.

Safety Data Sheet
according to Regulation (EC) No. 1907/2006

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7. Handling and storage

Handling

Advice on safe handling
Observe label precautions.

Storage

Further information on storage conditions
Tightly closed. Dry.
Without limitations.

8. Exposure controls/personal protection

Personal protective equipment

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection

required when dusts are generated.
Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances

Hand protection

full contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min

splash contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374, for example. KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet and supplied by us as well as to the purpose specified by us. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Eye protection

Safety glasses

Hygiene measures

Change contaminated clothing. Wash hands after working with substance.

Safety Data Sheet
according to Regulation (EC) No. 1907/2006

Catalogue No.: 102059
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9. Physical and chemical properties

Form	solid
Colour	light grey
Odour	odourless
pH	9,5 - 10,5 at 100 g/l 20 °C (slurry)
Viscosity, dynamic	no data available
Melting point	825 °C (decomposition)
Boiling point/boiling range	not applicable
Ignition temperature	not combustible
Flash point	does not flash
Oxidizing properties	no data available
Flammability	no data available
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Vapour pressure	no data available
Relative vapour density	no data available
Density	no data available
Bulk density	ca.400 - 1.400 kg/m ³
Solubility/qualitative	no data available
Water solubility	0,014 g/l at 20 °C
Partition coefficient: n- octanol/water	no data available
Evaporation rate	no data available

10. Stability and reactivity

Conditions to avoid
Strong heating.

Safety Data Sheet
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Catalogue No.: 102059
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Materials to avoid

Violent reactions possible with:

acids, ammonium compounds, Fluorine

Hazardous decomposition products

no information available

Thermal decomposition

ca.825 °C

11. Toxicological information

Acute oral toxicity

LD50 rat

Dose: 6.450 mg/kg

(IUCLID)

Eye irritation

rabbit

Result: No eye irritation

(Lit.)

Sensitisation

In animal experiments:

Result: negative

(Lit.)

Genotoxicity in vitro

Ames test

Result: negative

(Lit.)

Further information

Our own experience has provided no indication of any hazardous potential.

No toxic effects are to be expected when the product is handled appropriately.

Further data:

Handle in accordance with good industrial hygiene and safety practice.

12. Ecological information

Persistence and degradability

Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances.

Bioaccumulation

Bioaccumulation is unlikely.

Additional ecological information

We have no quantitative data concerning the ecological effects of this product.

Further information on ecology

No ecological problems are to be expected when the product is handled and used with due care and attention.

Safety Data Sheet
according to Regulation (EC) No. 1907/2006

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13. Disposal considerations

Product

Chemicals must be disposed of in compliance with the respective national regulations. Under www.retrologistik.de you will find country- and substance-specific information as well as contact partners.

Packaging

Merck product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system. Under www.retrologistik.de you will find special information on the respective national conditions as well as contact partners.

14. Transport information

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

GHS-Labeling

Not a dangerous substance according to GHS.

CAS-No. 471-34-1

Labelling according to EC Directives

The product does not need to be labelled in accordance with EC directives or respective national laws.

EC-No. 207-439-9

National legislation

Storage class VCI: 10 - 13 Other liquids and solids

Major Accident Hazard Legislation: 96/82/EC Update: 2003
Directive 96/82/EC does not apply

16. Other information

Regional representation: This information is given on the authorised Safety Data Sheet for your country.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.