

# Safety data sheet

in accordance with 2001/58/EC



## CALCIPUR 5-AL

Substance key: PR-64024  
Version: / DE / 00.00.0000

Date of printing : 01.04.2008

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Product information

Trade name : **CALCIPUR 5-AL**

Recommended use : Food auxiliary material and additive, E170

COMPANY : E. Merkle GmbH & CO. KG  
Altental 6  
89143 Blaubeuren

Telephone : +49734496010  
Telefax : +497344960111  
Emergency telephone number : +4922137750

outside of business hours: +41613192837

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature** : calcium carbonate (CaCO<sub>3</sub>).  
Contains a small amount of silica, quartz as a naturally occurring component of calcium carbonate.

Components	CAS-No.	EINECS-No.	Symbol(s):	R-phrases(s)	Concentration
Ground calcium carbonate	1317-65-3	215-279-6			

### 3. HAZARDS IDENTIFICATION

The product is not classified according to the EU directive 67/548/EEC and the preparations directive (1999/45/EC).

### 4. FIRST AID MEASURES

Eye contact : In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice

Skin contact : Rinse with lots of water

Inhalation : By continuous complaints consult a physician.

Ingestion : Do not induce vomiting.  
Call in a physician immediately and show him the Safety Data Sheet.

#### Notes to physician

Symptoms : treat symptomatically

### 5. FIRE-FIGHTING MEASURES

Further information : This product is not combustible

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### 6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up : Pick up in dry form.  
When picked up, treat material as prescribed under heading "Disposal".  
Keep away from acids.

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### 7. HANDLING AND STORAGE

#### Handling

Safe handling advice : Observe the usual precautions for handling chemicals

#### Storage

Requirements for storage areas and containers : Keep container tightly closed.  
Keep container dry.

Advice on common storage : Do not store together with acids.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Personal protective equipment

Respiratory protection : Dust mask

Dust limit value : 10 mg/m<sup>3</sup> Germany Total dust.

Dust limit value : 3 mg/m<sup>3</sup> Germany Total inhalable dust.

ACGTH TLV : 10 mg/m<sup>3</sup> United States Total dust.

OEL (8h) : 4 mg/m<sup>3</sup> The United Kingdom Respirable dust

OEL (RCS) : 0,05 mg/m<sup>3</sup> Italy

OEL (RCS) : 0,4 mg/m<sup>3</sup> Ireland

Hygiene measures : Observe the usual precautions when handling chemicals.

Hand protection : not required

Eye protection : not required

Skin and body protection : not required

Delimitation and monitoring of the environmental exposition : Not applicable

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

State of aggregation : solid

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Form : powder  
Colour : white  
Odour : odourless

### Other data

Melting point : not applicable  
Boiling point : not applicable  
Flash point : Not applicable  
Flammability : Not inflammatory  
Explosion characteristics : Not explosive, MEI > 1.000 mJ.  
Density : 2,6 - 2,8 g/cm<sup>3</sup> [20 °C] DIN-ISO 787/10  
Solubility in water : 0,014 g/l [20 °C]  
Solubility in water : 0,018 g/l [75 °C]  
pH : 8,5 - 9,5 100 g/l [20 °C] DIN-ISO 787/9  
Partition coefficient (n-octanol/water) : POW: < 1  
Estimation

## 10. STABILITY AND REACTIVITY

Thermal decomposition : > 600 °C  
Conditions to avoid : no data specified  
Materials to avoid : Keep away from acids.  
Hazardous decomposition products : can react with acids under the formation of carbon dioxide (CO<sub>2</sub>) which can displace oxygen (danger of suffocation)

## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 (oral), rat: > 2.000 mg/kg

## 12. ECOLOGICAL INFORMATION

Fish toxicity : LC50, Fish general (Pisces) / 96 h: > 10.000 mg/l  
Toxicity to algae : EC50, Algae / 72 h: > 200 mg/l  
Toxicity to daphnia : EC50, Daphnia / 48 h: > 1.000 mg/l  
Remarks : In its solid state, calcium carbonate is a natural mineral of the earth. In its dissolved state, the substance is a natural and indispensable component of natural waters. Therefore, unfavorable effects to the environment may be excluded.

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Calcium carbonate cannot biodegrade.  
Restrictions may be indicated that concentrated suspensions calcium carbonate in natural waters may have an unfavorable effect on water organisms (disturbance of the microflora and -fauna in the sediment and subsequent detriment to the existence of higher water organisms).

### 13. DISPOSAL CONSIDERATIONS

Product : May be deposited into a controlled land-fill; local regulations are binding.  
Ask manufacturer for special waste disposal method

### 14. TRANSPORT INFORMATION

ADR : Non-hazardous goods

RID : Non-hazardous goods

IMDG : Non-hazardous goods

ICAO/IATA : Non-hazardous goods

Additional advice : Delivered by post  
Permitted.

### 15. REGULATORY INFORMATION

labelling according to EEC Directive : The product does not require a hazard warning label in accordance with EC directives/German regulations on dangerous substances. EEC/67/548

#### National legislation

Storage class (VCI) : 13 Non-combustible solids

Water contaminating class Germany : Not hazardous to waters (in accordance with VwVwS of 17.05.1999).

### 16. OTHER INFORMATION

EU (European union), Switzerland : EINECS No. 215-279-6, E170

The data are based on the current state of our knowledge, and are intended to describe the product with regard to the requirements of safety. The data should not be taken to imply any guarantee of a particular or general specification. It is the responsibility of the user of the product to ensure to his satisfaction that the product is suitable for the intended purpose and method of use. We do not accept responsibility for any harm caused by the use of this information. In all cases, our general conditions of sale apply.

(||) Designates a revision of an earlier expenditure of this safety data sheet.