

**MATERIAL SAFETY DATA SHEET****1. PRODUCT AND COMPANY IDENTIFICATION****1.1 Product Identifier:**

Calcium Carbonate	
CHEMICAL NAMES	SYNONYMS
CALCIUM CARBONATE	Calcii Carbonas

**1.2 Relevant , identified uses of the substance/ preparation and uses which are not recommended.****Identified uses of the substance /preparation:** Manufacture of CaCO<sub>3</sub> **Not****recommended uses of the substance/ preparation:** None**1.3 Details of the supplier, who provides the Safety Data Sheet****Manufacturer**

SBF PHARMA

Block No. 265, Santej Vadasar Road, B/H Kitchen Express,

Ta- Kalol, Dis- Gandhinagar, Gujarat-382721

**Phone:** +91 9879522397**Information Contact:** 9879522397**E-mail:** [info@sbfpharma.com](mailto:info@sbfpharma.com)**Website:** [www.sbfpharma.com](http://www.sbfpharma.com)**1.4 Dept. responsible for information:** - Department Regulatory Affairs**2.0 HAZARDS IDENTIFICATION****2.1 Classification of the substance/preparation**

This mixture is classified as) not hazardous according to Regulation (EC) 1272/2008(GHS).\

There is no obligatory labelling requirement according to the Directive covering preparations 1999/45/EC.

**2.2 Labelling according to Regulation (EC) No 1272/2008****Hazard pictograms:****Signal word:** - Non Hazardous H**phrases:** - ---**P phrases:** - 102 Keep out of reach of children  
260 Do not breathe dust/fume/gas/mist/vapour/spray.  
270 Do no eat, drink or smoke when using this product.**2.3 Labelling according to Directive 67/548/EEC****Hazard symbols:****R phrases :-** ---**S phrases :-** 2 Keep out of the reach of children.  
13 Keep away from food, drink and animal feeding stuffs. 20/21  
When using do not eat, drink or smoke.  
22 Do not breathe dust.**2.4 Additional critical hazard to man and environment:** - No risks worthy of mention.**3 COMPOSITION / INFORMMATION ON INDREDIENTS****3.1 Chemical characterization:-** Ground, natural calcium carbonate (CaCO<sub>3</sub>)**3.2 Composition of the substance / preparation**

Chemical name	CAS. No.	Einecs No.	EC Index-No.	Concentration	Classification
Calcium Carbonate	471-34-1	207-439-9	215-279-6	Min. 98.5%	-

**3.3 Additional information:-** None

## 4.

### FIRST AID MEASURES

#### 4.1 Description of the first aid measures

**General Information :** In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible)

**Following Inhalation:** Provide fresh air. In case of irritation of the respiratory tract seek medical advice. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

**Following eye contact:** In case of contact with eyes, rinse immediately with plenty of following water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

**After Ingestion:** Rinse mouth immediately and drink large quantity of water. No administration in cases of unconsciousness or cramps. Do not induce vomiting. Seek medical attention if problems persist.

**Self protection:-** No special measures are necessary.

#### 4.2 Major acute and delayed occurring symptoms and dangers

**Symptoms :** Milk-alkali syndrome. Calcium carbonate syndrome.

**Nature of Hazard:** Hypercalcaemia, Alkalosis. Renal dysfunction.

#### 4.3 Information on emergency aid or special treatment

**Emergency aid:** Let water be swallowed in little sips, vomiting.

**Treatment:** Treat symptomatically.

## 5.

### FIRE FIGHTING MEASURES

**5.1 General information:-** Extinguisher materials should be selected according to the surrounding area. The product itself is not combustible.

**5.2 Extinguishing Media:- Suitable:** Water fog. High power water jet. Carbon dioxide (CO<sub>2</sub>). Foam. Dry extinguishing powder.  
**Unsuitable:** None

**5.3 Special exposure hazards arising from the substance/ preparation:-** Releases: Carbon Dioxide, Calcium Oxide.

#### 5.4 Instruction for fire fighting

Special protective equipment for fire –fighters.

Wear a self contained breathing apparatus and chemical resistant suit.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## 6.

### ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Provided adequate ventilation, wear personal protection equipment. See protective measure under point 7 and 8.

**6.2 Environmental precautions:-** Do not empty into drains or the aquatic environment.

#### 6.3 Methods and materials for retention and cleaning up

Remove mechanically, placing in appropriate containers for disposal. Treat the assimilated material according to the section on waste disposal. Avoid generation of dust. Clear contaminated area thoroughly. Wash with generous amount of water.

**6.4 Reference to other section:-** Absorb wet solids or soak them up.

## 7.

### HANDLING AND STORAGE

#### 7.1 Safety measures for safe handling

**Information of safe handling:** - Avoid generation of dust. Do not breath dust.

**Technical measures:** - Provide for sufficient ventilation and punctiform suction at critical points.

**Precautions against fire and explosion:**-No special fire protection measures are necessary.

**Additional Information:** - None

#### 7.2 Conditions for safe storage

**Technical measure and storage conditions:**- Ensure adequate ventilation of the storage area.

**Packing materials:** - Keep/store only in original container.

**Requirements for store rooms and containers:**-Keep containers tightly closed and in a well ventilated place.

**Information about storing together in the storage facility:**-Do not store together with acid, oxidizing agents, aluminium, magnesium.

Keep away from food, drink and animal feeding stuffs.

**Further information concerning storage conditions:**-None. **Storage**

**class:** 13 non-combustible solids.

#### 7.3 Specific use(s):- Observe instructions for use.

## 8.

### Exposure controls/Personal protection equipment

#### 8.1 Parameters to control

**Exposure limit values**

**Calcium carbonate**

**CAS-No.:** 471-34-1

**Source:** TRGS 900-Common dust limit (01/2006) **Occupational**

**exposure limit value:** 3 mg/m<sup>3</sup> A or 1 mg/m<sup>3</sup> E **Limitation of**

**exposure peaks:** 2(II)

**Remark:** AGS

A: Alveolar dust fraction E:

respirable dust fraction

AGS Committee on Hazardous Substances

**Control-Banding:**-None

#### 8.2 Exposure controls Occupational

exposure controls

Recommended monitoring procedures: Flame-AAS

#### **Chemical handling**

Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Apply skin care products after work.

Wash contaminated clothing prior to re-use.

**Personal protection equipment:**-None

**Respiratory protection:**-With correct and proper use, and under normal conditions, breathing protection is not required.

**Respiratory protection required in case of: exceeding critical value:**-Suitable respiratory protective equipment: particulates filter device (DIN EN 143)

**Hand protection:**-Hand protection: not required. **Eye**

**protection:**-Tightly sealed safety glasses. **Skin**

**protection:**-Skin protection: not required

**Environmental exposure controls:**-Refer to chapter 7. No further action is necessary.

**Consumer exposure controls:**-Refer to chapter 7. No further action is necessary.

## 9.

### Physical and Chemical properties

#### 9.1 Information on the basic physical and chemical properties

##### Appearance

**Status of matter:** Solid: Powder **Colour:**

White to off white

**Odour:** Odourless

**Odour threshold:** None

##### Safety relevant basis data

	Parameter	value	unit	Remark.
<b>Density:</b>	at 20°C	2.71	g/cm <sup>3</sup>	measurement
<b>Package density:</b>		400-700	kg/cm <sup>3</sup>	literature (GESTIS)
<b>pH:</b>	at 100 g/l	9.4		measurement
<b>Melting point/range:</b>			825°C	slow decomposition
<b>Boiling temperature/range:</b>				not applicable
<b>Flash point:</b>				no flash point
<b>Flammability:</b>				not applicable
<b>Lower flammability limit:</b>				not applicable
<b>Upper flammability limit:</b>				not applicable
<b>Explosion hazard:</b>				not applicable
<b>Lower explosion hazard</b>				not applicable
<b>Upper explosion hazard</b>				not applicable
<b>Ignition temperature:</b>				not applicable
<b>Decomposition temperature:</b>		>800°C		not applicable
<b>Oxidizing characteristics:</b>				not oxidizing
<b>Vapour pressure:</b>				not applicable
<b>Relative vapour density:</b>				not applicable
<b>Speed of Vaporization/evaporation rate:</b>				not applicable
<b>Solubility in water:</b>	at 20°C	0.3%		measurement
<b>Fat solubility:</b>				insoluble
<b>Solubility in log P O/W (n-octanol/water):</b>				not applicable
<b>Viscosity:</b>				not applicable
<b>Solvent separation test:</b>				not applicable
<b>Solvent content:</b>				not applicable

9.2 Other Information:-CaCO<sub>3</sub> dissolves in strong acids, releasing CO<sub>2</sub>

### 10. Stability and reactivity

10.1 Reactivity:-None.

10.2 Chemical stability:-Decomposition takes place from temperature above 825°C

10.3 Possible reactions:-Violent reaction with: Acid, Formation of: Carbon dioxide.

10.4 Conditions to avoid:-None

10.5 Materials to avoid:-Acid, Oxidizing agents, strong Aluminium, Magnesium.

10.6 Hazardous decomposition products:-Calcium oxide, calcium dioxide.

10.7 Additional information:- None

## **11. Toxicological information**

**11.1 Information on toxicological effects:**-Data apply to the principal component. **Acute toxicity**

Calcium carbonate

CAS No.: 471-34-1

Toxicological information acute toxicity, oral LD50:6450 mg/kg (Rat) **Specific**

**symptoms in Laboratory animals:**-No information Available.

**11.2 Irritation and etching**

**Irritant effect on the skin:**-Not an irritant.

**Irritant on the eye:**-Mild irritant.

**Irritant effect on the respiratory tract:**-Mild irritant.

**Etaching:**-Not corrosive

**11.3 Sensitization:**- No danger of sensitization.

**11.4 Repeated dose toxicity:**-Danger of cumulative effects.

Milk-alkali- or Calcium carbonate – syndrome.(4-60 g/d orally)

**11.5 CMR effects**

**Carcinogenicity:**-None

**Mutagenicity:**-None

**Reproductive toxicity:**-None

**11.6 General remarks:**-None **Practical**

**experience:**-None **Other**

**observations:**-None **Additional**

**information :**-None

## **12.**

### **ECOLOGICAL INFORMATION**

**12.1 Information on ecological effects:**- No information available.

**12.2. Persistence and Biodegradation :**-No information available.

**12.3 Bio accumulative potential:**- No information available.

**12.4 Mobility:**- No information available.

**12.5 Results of PBT and vPvB assessments:**-This substance does not meet the criteria for classification as PBT or vPvB.

**12.6 Other harmful effects:**- None

**12.7 Further ecological information:**-Do not empty into drain or the aquatic environment.

**12.8 Further details :**-None

## **13.**

### **DISPOSAL CONSIDERATIONS**

**13.1 Appropriate disposal**

**Appropriate disposal/ Products:**-Waste disposal according to EC directive 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions.

**Appropriate disposal/packaging:**-Cleaned containers may be recycled. Handle contaminated packaging in the same way as the substance itself.

**Control report for waste code/ waste marking according to EAKV:**-According to EAKV, allocation of waste identity numbers/ waste description must be carried out in a specific way for every industry and process.

**Waste key product:** 02 04 02 or 03 03 09

**Waste key packaging:** 02 04 02 or 03 03 09

**Remarks:**-Waste disposal according to official state regulations.

**14.**

**TRANSPORT INFORMATION**

**14.1 Overland transport (ADR/RID)**

Proper shipping name CALCIUM  
CARBONATE, ALL QUALITIES

UN No.: -

Label:                      Packing Group:-                      Classification code: - Remarks:  
Not a hazardous material with respect to these transportation regulations.

**14.2 Transport by sea (IMDG)**

Proper Shipping name  
CALCIUM CARBONATE, ALL  
QUALITIES

UN No.: - ---

Label: --                      Packing Group:-                      Classification code: ---  
EmS No. ---                      MFAG: ---                      Marine pollutant: No

Special Provisions: keep away from food, drink and animal feeding stuffs.

Remark: not a hazardous material with respect to these transportation regulations.

**14.3 Air transport (ICAO-TI/IATA-DGR)**

Proper Shipping name  
CALCIUM CARBONATE, ALL  
QUALITIES

UN/ID-No.: ---

Label: ----                      packing group: ---

Remark: Not a hazardous material with respect to these transportation regulations.

**14.4 Mail**

Not a hazardous material with respect to these transportation regulations.

**15.**

**REGULATORY INFORMATION**

**15.1 Labelling**

Hazardous component(s) for labelling:-Calcium carbonate,

Special labelling of particular preparations :-Safety data sheet available for professional user on request.

**15.2 Regulations for the safety, health and environmental protection as well as specific Legislation for the substance/preparation**

**EU-Regulations**

Directive 1999/13/EC on the limitation of emissions of volatile organic compounds (VOC-RL):-None

Regulation (EC) No 2037/2000 on substances that deplete the ozone layer:-None

Regulation (EC) No 850/2004 on persistent organic pollutants:-None

Regulation (EC) No 689/2008 concerning the export and import of dangerous chemicals:-None

Regulations (EC) No 648/2004 (Detergents regulation):-None

Restrictions under Title VIII of Regulation (EC) No 1907/2006:-None National

regulations :-Moreover, national legislation has to be observed! **Informations**

**on working limitations:-None**

**Major Accidents Ordinance :-None**

**Storage class according to VCL:-13 Non-combustible solids**

**Water Hazard Class according to VwVwS:-0 not a water pollutant**

**Technical instructions on Air Quality Control (TA-Luft):-Total dust emission levels shall not be exceeded (see paragraph 5.2.1).**

**Further regulations, limitations and legal requirements:-None**

### **15.3 Chemical safety assessment**

**For this preparation, a chemical safety assessment has been carried out:**

For this substance a chemical safety assessment is not required.

## **16.**

### **OTHER INFORMATION**

#### **16.1 Wording of the H and R-phrases under paragraph 3**

**Regulation (EC) No 1272/2008:- ----**

**Directive e67/548/EEC:-----**

#### **16.2 Training instructions: - None**

#### **16.3 Recommended restrictions of use:- Refer to chapter 1**

#### **16.4 Further remarks**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information can not be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the made-up material.

#### **6.5 Documentation of changes:-None**

#### **16.6 Data sources:-Data arise from reference works and literature**

#### **16.7 Key and definition:-None**