MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifier:

<table>
<thead>
<tr>
<th>CHEMICAL NAMES</th>
<th>SYNTHYMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CALCIUM CARBONATE</td>
<td>Calcii Carbonas</td>
</tr>
</tbody>
</table>

1.2 Relevant, identified uses of the substance/preparation and uses which are not recommended.

Identified uses of the substance/preparation: Manufacture of CaCO₃
Not recommended uses of the substance/preparation: None

1.3 Details of the supplier, who provides the Safety Data Sheet

Manufacturer
Sudeep Pharma Pvt. Ltd.
129/1A, GIDC Estate, Nandesari, Dist. Vadodara.
State Gujarat, (India)
Phone: +91 265 284 0656
Information Contact:
Information Phone: +91 265 284 0656 / 329 1354
Information Fax: +91 265 284 1250 / 233 6284
Email: mail@sudeepgroup.com
Website: http://www.sudeepgroup.com

1.4 Emergency telephone:

Telephone: +91 265 284 0656

1.5 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 not eat, drink or smoke when using this product.

2.3 Labelling according to Directive 67/684/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 INREDIENTS

3.1 Chemical characterization:

- Ground, natural calcium carbonate (CaCO₃)

3.2 Composition of the substance / preparation

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS. No.</th>
<th>Eines No.</th>
<th>EC Index-No.</th>
<th>Concentration</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Carbonate</td>
<td>471-34-1</td>
<td>207-439-9</td>
<td>215-279-6</td>
<td>Min. 98.5%</td>
<td>&quot;</td>
</tr>
</tbody>
</table>

3.3 Additional information: None
Calcium Carbonate Powder

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 contract 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.


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.


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, aluminum, 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/m³ A or 1 mg/m³ 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

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Status of matter: Solid: Powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>White to off white</td>
</tr>
<tr>
<td>Odour:</td>
<td>Odourless</td>
</tr>
<tr>
<td>Odour threshold:</td>
<td>None</td>
</tr>
</tbody>
</table>

Safety relevant basis data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>value</th>
<th>unit</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density:</td>
<td>at 20°C</td>
<td>2.71 g/cm³</td>
<td>measurement</td>
</tr>
<tr>
<td>Package density:</td>
<td></td>
<td>400-700 kg/cm³</td>
<td>literature (GESTIS)</td>
</tr>
<tr>
<td>pH:</td>
<td>at 100 g/l</td>
<td>9.4</td>
<td>measurement</td>
</tr>
<tr>
<td>Melting point/range:</td>
<td></td>
<td>825°C</td>
<td>slow decomposition</td>
</tr>
<tr>
<td>Boiling temperature/range:</td>
<td></td>
<td></td>
<td>not applicable</td>
</tr>
<tr>
<td>Flash point:</td>
<td></td>
<td></td>
<td>not applicable</td>
</tr>
<tr>
<td>Flammability:</td>
<td></td>
<td></td>
<td>not applicable</td>
</tr>
<tr>
<td>Lower flammability limit:</td>
<td></td>
<td></td>
<td>not applicable</td>
</tr>
<tr>
<td>Upper flammability limit:</td>
<td></td>
<td></td>
<td>not applicable</td>
</tr>
<tr>
<td>Explosion hazard:</td>
<td></td>
<td></td>
<td>not applicable</td>
</tr>
<tr>
<td>Lower explosion hazard</td>
<td></td>
<td></td>
<td>not applicable</td>
</tr>
<tr>
<td>Upper explosion hazard</td>
<td></td>
<td></td>
<td>not applicable</td>
</tr>
<tr>
<td>Ignition temperature:</td>
<td></td>
<td></td>
<td>not applicable</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td></td>
<td>&gt;800°C</td>
<td>not applicable</td>
</tr>
<tr>
<td>Oxidizing characteristics:</td>
<td></td>
<td></td>
<td>not oxidizing</td>
</tr>
<tr>
<td>Vapour pressure:</td>
<td></td>
<td></td>
<td>not applicable</td>
</tr>
<tr>
<td>Relative vapour density:</td>
<td></td>
<td></td>
<td>not applicable</td>
</tr>
<tr>
<td>Speed of vaporization/evaporation rate:</td>
<td></td>
<td></td>
<td>not applicable</td>
</tr>
<tr>
<td>Solubility in water:</td>
<td></td>
<td>0.3%</td>
<td>measurement</td>
</tr>
<tr>
<td>Fat solubility:</td>
<td></td>
<td></td>
<td>insoluble</td>
</tr>
<tr>
<td>Solubility in log P O/W (n-octanol/water):</td>
<td></td>
<td></td>
<td>not applicable</td>
</tr>
<tr>
<td>Viscosity:</td>
<td></td>
<td></td>
<td>not applicable</td>
</tr>
<tr>
<td>Solvent separation test:</td>
<td></td>
<td></td>
<td>not applicable</td>
</tr>
<tr>
<td>Solvent content:</td>
<td></td>
<td></td>
<td>not applicable</td>
</tr>
</tbody>
</table>

9.2 Other Information: CaCO₃ dissolves in strong acids, releasing CO₂

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.
Calcium Carbonate Powder

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 859/2008 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 VwWvS:-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 e87/548/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.

16.5 Documentation of changes: None

16.6 Data sources: Data arise from reference works and literature

16.7 Key and definition: None