

Distributed by:
Laguna Clay Company
14400 Lomitas Ave
City of Industry, CA 91746
1-800-4Laguna
info@lagunaclay.com
www.lagunaclay.com

Date Prepared: 01/01/2012

MATERIAL SAFETY DATA SHEET

STRONTIUM CARBONATE

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

1.1. Identification of the substance or preparation

Product name : STRONTIUM CARBONATE

Chemical Name : Strontium carbonate

Synonyms : Strontionit
Molecular formula : SrCO3
Molecular Weight : 147.6 g/mol
CAS# : 1633-05-2

1.2. Use of the Substance/Preparation

Recommended use : - Glass industry

- concrete, bricks, tiles and ceramics

Electronic industryChemical industry

2. HAZARDS IDENTIFICATION

Appearance : powder or granular

Color : white Odor : odorless

- Not classified as hazardous according to criteria of NOHSC.
- Product dust may be irritating to eyes, skin and respiratory system.
- Possible risk of irreversible effects through inhalation.
- Risk of pulmonary overload (respirable particulates)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name
(CAS-No. / EC-No. / Annex-1)

Strontium carbonate
(1633-05-2 / 216-643-7 / Exempt or not available)

Barium carbonate

<= 2.5 % Xn R22

(51 3-77-9 / 208-1 67-3 / 056-003-00-2)

4. FIRST AID MEASURES

4.1. Inhalation

- Remove the subject from dusty environment and let him blow his nose.
- If symptoms persist, call a physician.

4.2. Eye contact

- Rinse thoroughly with plenty of water, also under the eyelids.
- If eye irritation persists, consult a specialist.

4.3. Skin contact

- Wash off with soap and water.
- Remove and wash contaminated clothing before re-use.
- -If symptoms persist, call a physician.

4.4. Ingestion

Call a physician immediately.

If victim is conscious:

- If swallowed, rinse mouth with water (only if the person is conscious).
- Do NOT induce vomiting.

If victim is unconscious but breathing:

- Artificial respiration and/or oxygen may be necessary.

5. FIRE-FIGHTING MEASURES

5.1. Suitable extinguishing media

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

5.2. Extinguishing media which shall not be used for safety reasons

None.

5.3. Special exposure hazards in a fire

- Not combustible.
- Hazardous decomposition products formed under fire conditions.

5.4. Special protective equipment for fire-fighters

No special precautions required.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions

Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions

Should not be released into the environment.

6.3. Methods for cleaning up

- Sweep up and shovel into suitable containers for disposal.
- Avoid dust formation.
- Keep in properly labelled containers.
- Keep in suitable, closed containers for disposal.
- Treat recovered material as described in the section "Disposal considerations".

7. HANDLING AND STORAGE

7.1. Handling

- Use only in well-ventilated areas.
- Keep away from incompatible products

7.2. Storage

- Keep in a dry place.
- Store in original container.
- Keep container closed.
- Keep away from Incompatible products.

7.3. Specific use(s)

For further information, please contact: Supplier

7.4. Packaging material

- Paper + PE.

7.5. Other information

- Avoid dust formation.
- Refer to protective measures listed in sections 7 and 8.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure Limit Values

Barium carbonate

- US. ACGIH Threshold Limit Values 01 2006

time weighted average = 0.5 mg/m3

Remarks: as Ba

Nanoparticles

Remarks: none established, Avoid exposure - obtain special instructions before use.

8.2. Exposure controls

- Ensure adequate ventilation.
- Provide appropriate exhaust ventilation at places where dust is formed.
- Refer to protective measures listed in sections 7 and 8.
- Apply technical measures to comply with the occupational exposure limits.

8.2.1. Occupational exposure controls

8.2.1.1. Respiratory protection

- Use only respiratory protection that conforms to international/ national standards.
- Recommended Filter type:
- P3

8.2.1.2. Hand protection

- Protective gloves
- Suitable material : PVC, Natural Rubber
- Unsuitable material: Do not wear neoprene gloves, as neoprene absorbs nanoparticles.

8.2.1.3. Eye protection

Dust proof goggles, if dusty.

8.2.1.4. Skin and body protection

- long sleeved clothing
- Apron
- Boots
- PVC

8.2.1.5. Hygiene measures

- When using do not eat, drink or smoke.
- Wash hands before breaks and at the end of workday.
- Handle in accordance with good industrial hygiene and safety practice.

8.2.2. Environmental exposure controls

Dispose of rinse water in accordance with local and national regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General Information (appearance, odor)

Appearance : powder, pellets

Color : white : odorless Odor

9.2. Important health safety and environmental information

: 7 - 8 Hq

Remarks: saturated aqueous solution

Temperature: 20 °C

Boiling point/boiling range : Remarks: not applicable, Decomposition

Flash point : Remarks: not applicable

Flammability : Remarks: The product is not flammable.

: Explosion danger Explosive properties

Remarks: Not explosive

Oxidizing properties : Remarks: Non oxidizer

Vapor pressure : Remarks: not applicable

Relative density / Density : 3.7

Bulk density : from 300 - 700 kg/m3(powder)

: from 1,200 - 2,000 kg/m3(pellets)

Solubility : Water

0.01 g/l

Temperature: 18 °C

Partition coefficient:

: Remarks: not applicable

n-octanol/water

Vapor density : Remarks: not applicable

9.3. Other data

Melting point/range : Remarks: not applicable, Decomposition

Auto-flammability : Remarks: no data available

Granulometry : 0.74 - 10 µm (powder)

Remarks: d 50, nanoparticles 80 % > 0.15 - 0.85 mm (pellets)

Decomposition : > 1,340 °C

temperature

10. STABILITY AND REACTIVITY

10.1. Stability

- Stable under recommended storage conditions.
- Contact with acids liberates CO2, sometimes violently.

10.2. Conditions to avoid

- none

10.3. Materials to avoid

Incompatible with acids.

10.4. Hazardous decomposition products

- Strontium oxide, The release of other hazardous decomposition products is possible.

11. TOXICOLOGICAL INFORMATION

11.1 Toxicological data

Acute oral toxicity

LD50, rat, > 2,000 mg/kg

Chronic toxicity

- Oral, Repeated exposure, rat, Target Organs: skeleton, observed effect
- Inhalation, after a single exposure, rat, Target Organs: Respiratory system, observed effect

Possible hazards (summary)

- Product dust may be irritating to eyes, skin and respiratory system.
- No data exists on the effects of nanometre sized particles on the body.
- Other dangerous properties can not be excluded.

11.2. Health effects

Main effects

- Chronic exposure to the product can cause bone calcification disorders.
- Product dust may be irritating to eyes, skin and respiratory system.
- Possible risk of irreversible effects through inhalation.

Inhalation

- Repeated or prolonged exposure: chronic bronchitis, Risk of pulmonary overload (respirable particulates).
- (in case of higher concentration): chemical pneumonitis.

Eye contact

Contact with eyes may cause irritation.

Skin contact

- The product may be absorbed through the skin.
- May cause skin irritation and/or dermatitis.

Ingestion

- No reported cases of intoxication in man.

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity effects

Acute toxicity

Remarks: no data available

Chronic toxicity

Remarks: no data available

12.2. Mobility

Air

Remarks: mobility as solid aerosols

Water/soil

Remarks: low solubility and mobility

12.3. Persistence and degradability

Abiotic degradation

Water/soil

Result: slow ionization and cation precipitation in presence of sulfates or carbonates

Biodegradation

- Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

12.4. Bioaccumulative potential

 Bioconcentration: Terrestrial plants, various species Result: potential accumulation of the cation

12.5. Other adverse effects

- no data available

12.6. Possible hazards (summary)

- no data available
- Ecological injuries are not known or expected under normal use.
- Persistent product mainly in its inert form.

13. DISPOSAL CONSIDERATIONS

13.1. Waste from residues / unused products

- In accordance with local and national regulations.
- Dispose of wastes in an approved waste disposal facility.

13.2. Packaging treatment

- Containers that cannot be cleaned must be treated as waste.
- 01
- Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

Laguna Clay Company www.Lagunaclay.com 1-800-4Laguna info@Lagunaclay.com

14. TRANSPORT INFORMATION

Remarks:

- not regulated

15. REGULATORY INFORMATION

15.1. Labels

Not classified as hazardous according to criteria of NOHSC.

15.2. Inventory Information

:	-	In compliance with inventory.
:	-	In compliance with inventory.
:	-	In compliance with inventory.
:	-	In compliance with inventory.
:	-	In compliance with inventory.
:	-	In compliance with inventory.
:	-	In compliance with inventory.
:	-	In compliance with inventory.
:	-	In compliance with inventory.
	: :	: - : - : - : - : -

16. OTHER INFORMATION

16.1. Administrative information

- General revision
- Distribute new edition to clients

The information given corresponds to the current state of our knowledge and experience of the product, and is not exhaustive. This applies to product which conforms to the specification, unless otherwise stated. In this case of combinations and mixtures one must make sure that no new dangers can arise. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and protection of human welfare and the environment.



The information contained herein is furnished without warranty of any kind. Users should consider these data only as a suppliment to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment. Any information relating to usage is for guidance purposes only.