Safety Data Sheet

STRONTIUM CARBONATE



## **1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

Product Name: Stronti Chemical Name: Stronti Recommended Use: Py Manufactured For: Phone: Emergency Phone:				
2. HAZARDS IDENTIFICATION				
Signal Word:	Danger			
Classification: Pictogram:	Not classified as hazardous according to criteria of NOHSC (Nat'l.Occupational & Health Safety Commission).			
Safety Phrases:	Product dust may be irritating to eyes, skin and respiratory system.			
Risk Phrases:	Possible risk of irreversible effects through inhalation. Risks of pulmonary overload (respiratory particulates).			

Environmental Hazards: None reported.

.

## 3. COMPOSITION/INFORMATION ON MATERIAL

Component	CAS Number	Proportion
Strontium Carbonate	1633-05-2	>96.5%
Barium Carbonate	513-77-9	< 2.5%

Safety Data Sheet

**STRONTIUM CARBONATE** 

[Type text]

### 4. FIRST AID MEASURES

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

**Eye contact:** Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

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

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**

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which shall not be used for safety reasons - None.

**Special exposure hazards in a fire:** - Not combustible. Hazardous decomposition products formed under fire conditions.

Special protective equipment for firefighters: No special precautions required.

#### 6. ACCIDENTAL RELEASE MEASURES

**Precautions:** Refer to protective measures listed in sections 7 and 8.

Environmental precautions: Should not be released into the environment.

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

Handling: Use only in well-ventilated areas.

Keep away from incompatible products

**Storage:** Keep in a dry place. Store in original container. Keep container closed. Keep away from Incompatible products.

# Safety Data Sheet

[Type text]

STRONTIUM CARBONATE

Other information: Avoid dust formation. Refer to protective measures listed in Sections 7 & 8.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Limit Values**

#### Barium carbonate

<u>US. ACGIH Threshold Limit Values 01 2006</u> Time weighted average = 0.5 mg/m3 Remarks: as Ba

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

**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.

Occupational exposure controls

#### **Respiratory protection**

- Use only respiratory protection that conforms to international/ national standards.

- Recommended Filter type: P3

#### Hand protection: Protective gloves

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

**Eye protection:** Dust proof goggles, if dusty.

#### Skin and Body

**Protection :** long sleeved

clothing, apron, boots, PVC

**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.

**Environmental exposure controls :** Dispose of rinse water in accordance with local and national regulations.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### General Information (appearance, odor)

- **Appearance** : powder, pellets
- Color : white
- Odor : odorless

#### Important health safety and environmental information

pH: 7 - 8 Remarks: saturated aqueous solution Temperature: 20 °C

# Safety Data Sheet

# STRONTIUM CARBONATE

[Type text] Boiling point/boiling range: not applicable, Decomposition

Flash point: not applicableFlammability: product is not flammable.

Explosive properties: <u>Explosion danger</u>: Remarks: Not explosive

Oxidizing properties Non oxidizer

Vapor pressure not applicable

Relative density / Density: 3.7

Bulk density	from 300 - 700 kg/m <sup>3</sup> (powder)
	from 1,200 - 2,000 kg/m <sup>3</sup> (pellets)

Solubility: Water, 0.01 g/l, *Temperature*: 18 °C

Partition coefficient: : not applicable

n-octanol/water

Vapor density: not applicable

Melting point/range: not applicable, Decomposition

Auto-flammabilit no data available

**Granulometry**: 0.74 - 10 μm (powder), *Remarks*: d 50, nanoparticles 80 % > 0.15 - 0.85 mm (pellets)

Decomposition temperature: > 1,340 °C

# 10. STABILITY AND REACTIVITY

## Stability

- Stable under recommended storage conditions.

-Contact with acids liberates CO2, sometimes violently.

## Conditions to avoid: none

Materials to avoid: Incompatible with acids.

Hazardous decomposition products: Strontium oxide. The release of other hazardous decomposition products is possible.

# 11. TOXICOLOGICAL INFORMATION

## Toxicological data

Acute oral toxicity LD50, rat, > 2,000 mg/kg

## **Chronic toxicity**

Oral, Repeated exposure, rat, Target Organs: skeleton, observed effect

# Safety Data Sheet

# STRONTIUM CARBONATE

[Type text]

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 nanometer sized particles on the body. Other dangerous properties cannot be excluded.

—

## 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

#### **Ecotoxicity effects**

#### Acute toxicity

Remarks: no data available

#### Chronic toxicity

Remarks: no data available

#### Mobility

Air: Remarks: mobility as solid aerosols -<u>Water/soil</u> Remarks: low solubility and mobility

#### 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.

# Safety Data Sheet

[Type text]

STRONTIUM CARBONATE

### **Bioaccumulative potential**

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

#### Other adverse effects no data

available

## 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

### Waste from residues / unused products

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

#### Packaging treatment

Containers that cannot be cleaned must be treated as waste.

Or

Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

# 14. TRANSPORT INFORMATION

#### Remarks:

DOT not regulated

# 15. REGULATORY INFORMATION

Labels: Not classified as hazardous according to criteria of NOHSC.

#### 15.2. Inventory Information

Toxic Substance Control Act list	:	-	In compliance with inventory.
(TSCA)			
Australian Inventory of Chemical	:	-	In compliance with inventory.
Substances (AICS)			
Canadian Domestic Substances	:	-	In compliance with inventory.
List (DSL)			
Korea Existing Chemicals Inv.	:	-	In compliance with inventory.
(KECI) (KECI (KR))			
EU list of existing chemical	:	-	In compliance with inventory.
substances (EINECS)			
Japan (ENCS) List (ENCS (JP))	:	-	In compliance with inventory.
Inventory of Existing Chemical	:	-	In compliance with inventory.
Substances (China) (IECS)			

# Safety Data Sheet

preparation) (NZ)

# STRONTIUM CARBONATE

Philippine Inventory of Chemicals and Chemical Substances (PICCS) New Zealand Inventory (in In compliance with inventory.

- In compliance with inventory.

## 16. OTHER INFORMATION

: -

:

### 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. 10/22/13

Issue Date: March 14, 2014