

SAFETY DATA SHEET

Strontium carbonate Typ A

according to Directive 2001/58/EC)

1.0 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.
Chemical characterisation:	Powder.
Synonym(s):	Strontionit.
Formula:	SrCO_3 .
Molecular Weight:	147,6.
EC Number (EINECS):	216-643-7.

1.2 Use of the substance/ preparation

Recommended uses:	<ul style="list-style-type: none">- Construction materials additives.- Chemical industry.- Pharmaceuticals.- Glass industry.- Welding and soldering agents.- Electrical industry.
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1.3 Company/undertaking identification

Address:	Carl Jäger Tonindustribedarf GmbH, In den Erlen 4 D-56206 Hilgert
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Tel.:	+49 26 24 94 169-0
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1.3 Emergency telephone:	+49 26 24 94 169-0
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2.0 COMPOSITION / INFORMATION ON INGREDIENTS

Strontium carbonate

CAS Number:	1633-05-2.
EC Number (EINECS):	216-643-7.
Concentration:	>= 97,50 %.

3.0 HAZARDS IDENTIFICATION

- Preparation non classified according to Directive 1999/45/EC.

4.0 FIRST-AID MEASURES

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| Inhalation: | - Remove the subject from dusty environment and let him blow his nose. |
| Eyes contact: | - Consult with a physician in case of respiratory symptoms.
- Flush eyes with running water for several minutes, while keeping the eyelids wide open. |
| Skin contact: | - Consult with an ophthalmologist in case of persistent pain.
- Wash the affected skin with soap and water.
- Clean clothing. |
| Ingestion: | - Consult with a physician in case of persistent pain or redness.
General recommendations:
- Contact a physician for advice.
If the subject is completely conscious:
- Rinse mouth and administer fresh water.
If the subject is unconscious:
- Not applicable. |

5.0 FIRE-FIGHTING MEASURES

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| Suitable extinguishing media: | - In case of fire in close proximity, all means of extinguishing are acceptable. |
| Unsuitable extinguishing media: | - No restriction. |
| Special exposure hazards: | - Non-combustible. |
| Protective measures in case of intervention: | - The product does not require any special precautions. |

6.0 ACCIDENTAL RELEASE MEASURES

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| Personal precautions: | - Follow the protective measures given in section 8. |
| Environmental precautions: | - Prevent discharges into the environment (sewers, rivers, soils,...). |
| Methods for cleaning up: | - Collect the product with suitable means avoiding dust formation.
- Place everything into a closed, labelled container compatible with the product.
- For disposal methods refer to section 13. |

7.0 HANDLING AND STORAGE

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| Handling: | - Operate in a well-ventilated area. |
| Storage: | - Keep away from reactive products (see section 10).
- In a dry area.
- Keep in original packaging, closed. |
| Specific use(s): | - For any particular use, please contact the supplier. |
| Packing: | - Paper.
- PE. |
| Other precautions: | - Avoid dust and formation of dust clouds.
- Follow the protective measures given in section 8. |

8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit values

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| Strontium carbonate: | - TLV (ACGIH-USA).
- Result: Negligible. |
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| Exposure controls: | - Premises ventilation.
- Maintain employee exposures to levels below the applicable exposure limits. |
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Occupational exposure controls

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| Respiratory protection: | - In case of dust clouds / fog / fumes, dust mask type P1. |
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Hand protection:	- Use only respiratory protection that conforms to international / nationale standards.
Eye protection:	- Negligible, if the normal rules of industrial hygiene are respected.
Skin protection:	- Wear protective goggles for all industrial operations.
Other precautions:	- Negligible, if normal rules of industrial hygiene are respected.
Environmental exposure controls:	- Negligible, if the normal rules of industrial hygiene are respected.
	- Respect local / federal and national regulations for aqueous emissions (see section 15).

9.0 PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance:	Powder, pellets.
Color / Colour:	White.
Odor / Odour:	Odorless / odourless.

Important health, safety and environmental information

pH:	7 – 8. Temperature: 20 °C. Remark: Saturated solution. Not applicable (Decomposition).
Boiling point:	Not applicable.
Flash point:	Not applicable.
Flammability:	Not applicable.
Explosive properties:	No data.
Vapor/vapour pressure:	Remark: Very low.
Density:	<u>Specific gravity:</u> 3,7 <u>Bulk density:</u> from 0,3 – 0,7 kg/dm ³ (powder) from 1,2 – 2 kg/dm ³ (granulates)
Solubility:	Water 0,01 g/l Temperature: 18 °C

Partition coefficient P (n-octanol/water):	Not applicable.
Other information	
Melting point/range:	Not applicable (Decomposition).
Decomposition temperature:	> 1.100 °C.

10.0 STABILITY AND REACTIVITY

Conditions to avoid:	- Negligible.
Materials to avoid:	- Acids.
Hazardous decomposition products:	- strontium oxide.
Other information:	- Contact with acids liberates CO ₂ , sometimes violently.

11.0 TOXICOLOGICAL INFORMATION

Toxicological datas

Acute toxicity:	- Oral route, LD ₅₀ , > 2.000 mg/kg, Rat.
Irritation:	- No data.
Chronic toxicity:	- Oral route (diet), after repeated exposure, rat, Target organ: skeleton, observed effect - Intra-tracheal route, after a single exposure, rat, Target organ: respiratory system, observed effect.
Comments:	- No appreciable toxic effect. - Risk of chronic pulmonary inflammation.

Health effects

Main effects:

Inhalation:

Eyes contact:

Skin contact:

Ingestion:

- Chronic exposure to the product can induce bone calcification disorders.
- No reported cases of intoxication in man.
- At high concentrations, risk of chemical pneumonitis.
- No reported cases in man.
- Mechanical irritation from the particulates generated by the product.
- No data available for humans.
- No reported cases of intoxication in man.

12.0 ECOLOGICAL INFORMATION

Ecotoxicity

Acute ecotoxicity:

Chronic ecotoxicity:

Mobility:

- Result: no data.
- Result: no data.
- Air
Result: mobility as solid aerosols.
- Water / soil
Result: low solubility and mobility

Persistence and degradability

Abiotic degradation:

Biotic degradation:

Bioaccumulative potential

Bioconcentration:

Result:

Other adverse effects:

Comments:

- Water / soil
Result: slow ionization and cation precipitation in presence of sulfates or carbonates.
- Result: not applicable (inorganic compound).
- Terrestrial plants, various species.
- Potential accumulation of the cation.
- Study in progress.
- No specific data.
- Product is not significantly hazardous for the environment.
- Persistent product mainly as inert form.

13.0 DISPOSAL CONSIDERATIONS

Waste treatment:

Packing treatment:

- Dispose in compliance with local/federal and national regulations.
- Dispose of product at a landfill authorised for industrial waste.
- Containers that cannot be cleaned must be treated as waste.
- Or.
- Dispose of the containers by dispatching them to an approved industrial incineration facility.
- The empty and clean containers are to be reused in conformity with regulations.

14.0 TRANSPORT INFORMATION

- Not subject.

15.0 REGULATORY INFORMATION

EC Labelling:

- Not classified according to Directive 1999/45/EC.

16.0 OTHER INFORMATION

Reason for update:

- System maintenance.

This MSDS is intended for only the selected countries to which it is applicable. For example, this MSDS is not intended for use nor distribution within North America. You should contact Solvay America company representative for the official North America MSDS. 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.