

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Strontium Carbonate, Enriched Strontium Carbonate
Synonyms	Carbonic acid, strontium salt (1:1)
Chemical Formula	SrCO ₃
Molecular Weight	147.6 g/mol
CAS No.	1633-05-2
Supplier Address*	ISOFLEX USA PO Box 29475 San Francisco CA 94129 United States
Telephone	+1 415-440-4433
Fax	+1 415-563-4433
Emergency Phone Number (both supplier and manufacturer)	Infotrac/ +1 800-535-5053 *May include subsidiaries or affiliate companies/divisions
Email	iusa@isoflex.com
Website	www.isoflex.com
Preparation Information	ISOFLEX USA Product Safety +1 415-440-4433

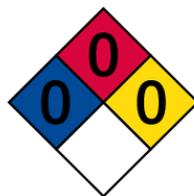
2. HAZARDOUS IDENTIFICATION

Emergency Overview:

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

NFPA Ratings: (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health Hazard = 0 Flammability = 0 Reactivity = 0



HMIS Ratings: (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health Hazard = 0 Flammability = 0 Physical Hazard = 0

HEALTH HAZARD	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

Potential Health Effects

<i>Inhalation</i>	Nuisance dust. May cause coughing or sneezing if inhaled in large amounts. Excessive inhalation of dust may be irritating to the respiratory tract.
<i>Ingestion</i>	Large oral dosages may produce gastrointestinal disturbances. Substance has low toxicity but ingestion of large amounts of any carbon dioxide-releasing material may cause discomfort, gas and possibly nausea.
<i>Eye Contact</i>	No adverse effects expected, but dust may cause mechanical irritation.
<i>Chronic Exposure</i>	No adverse health effects expected
<i>Aggravation of Pre-existing Conditions</i>	No information found
<i>Skin Contact</i>	No adverse effects expected, but dust may cause mechanical irritation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:	Strontium Carbonate
CAS No.:	1633-05-2
Chemical Formula:	SrCO ₃
Molecular Weight:	147.6 g/mol

4. FIRST AID MEASURES

<i>Inhalation Exposure</i>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<i>Oral Exposure</i>	If large amounts were swallowed, give water to drink and get medical advice.
<i>Dermal Exposure</i>	Wash exposed area with soap and water. Get medical advice if irritation develops.
<i>Eye Exposure</i>	Wash thoroughly with running water. Get medical advice if irritation develops.

5. FIREFIGHTING MEASURES

<i>Fire</i>	Not considered a fire hazard
<i>Explosion</i>	Not considered an explosion hazard
<i>Suitable Extinguishing Media</i>	Use any means suitable for extinguishing surrounding fire.

Firefighting

<i>Protective Equipment</i>	In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure-demand or other positive-pressure mode.
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6. ACCIDENTAL RELEASE MEASURES

<i>Personal Precautions</i>	Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.
<i>Environmental Precautions</i>	Should not be released into the environment. Local authorities should be advised if significant spillages cannot be contained.
<i>Methods for Cleaning Up</i>	Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

7. HANDLING AND STORAGE

Handling

Provide appropriate exhaust ventilation at places where dust is formed.

Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from acids and alkalis. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Airborne Exposure Limits

OSHA Permissible Exposure Limit (PEL)

15 mg/m³ total dust, 5 mg/m³ respirable fraction for nuisance dusts.

ACGIH Threshold Limit Value (TLV)

10 mg/m³ total dust containing no asbestos and < 1% crystalline silica for Particulates Not Otherwise Classified (PNOC).

Ventilation System

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Protective Equipment

Personal Respirators

If the exposure limit is exceeded and engineering controls are not feasible, a NIOSH-approved half face-piece particulate respirator (NIOSH-type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH-type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH-type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection

Wear protective gloves and clean body-covering clothing.

Eye Protection

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Powder
Color	White
Odor	Odorless

Safety Data

Solubility:	Negligible	Density:	3.5 at 68 °F (20 °C)
pH:	No information found	%Volatiles	No information found
Boiling Point:	Not applicable	Melting Point:	1100 °C (2012 °F)
Vapor Density:	No information found	Vapor Pressure:	No information found
Evaporation Rate:	No information found		

10. STABILITY AND REACTIVITY

<i>Stability</i>	Stable under ordinary conditions of use and storage
<i>Incompatible Materials</i>	Acids, strong oxidizing agents
<i>Conditions to Avoid</i>	No information found
<i>Hazardous Decomposition Products</i>	May produce oxides of carbon and the contained metal
<i>Hazardous Polymerization</i>	This substance does not polymerize

11. TOXICOLOGICAL INFORMATION

<i>LD50/LC50</i>	No information found relating to normal routes of occupational exposure.
<i>Skin Corrosion/Irritation</i>	No data available
<i>Serious Eye</i>	No data available
<i>Damage/Eye Irritation Respiratory or Skin Sensitization</i>	No data available
<i>Germ Cell Mutagenicity</i>	No data available
Carcinogenicity	
<i>IARC</i>	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.
<i>ACGIH</i>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
<i>NTP</i>	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
<i>OSHA</i>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
<i>Reproductive Toxicity</i>	No data available
<i>Specific Target Organ Toxicity / Single Exposure</i>	No data available
<i>Specific Target Organ Toxicity / Repeated Exposure</i>	No data available
<i>Aspiration Hazard</i>	No data available
<i>Additional Information</i>	RTECS: Not available

12. ECOLOGICAL INFORMATION

<i>Environmental Fate</i>	No information found
<i>Environmental Toxicity</i>	No information found
<i>Toxicity</i>	No data available
<i>Persistence and Degradability</i>	No data available
<i>Bioaccumulative Potential</i>	No data available

<i>Mobility in Soil</i>	No data available
<i>Results of PBT and vPvB Assessment</i>	PBT/vPvB assessment not available, as chemical safety assessment not required/not conducted
<i>Other Adverse Effects</i>	No data available

13. DISPOSAL CONSIDERATIONS

<i>Product</i>	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of unused product in accordance with federal, state and local requirements.
<i>Contaminated Packaging</i>	Dispose of container in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION

Not regulated.

15. REGULATORY INFORMATION

USA / Toxic Substances Control	In compliance with inventory
Australia / Inventory of Chemical Substances (AICS)	In compliance with inventory
Canada / Domestic Substances List (DSL)	In compliance with inventory
Korea / Existing Chemicals Inventory (KECI (KR))	In compliance with inventory
EU list of existing chemical substances (EINECS)	In compliance with inventory
Japan / Inventory of Existing & New Chemical Substances (ENCS)	In compliance with inventory
Inventory of Existing Chemical Substances (China) (IECS)	In compliance with inventory
Philippines / Inventory of Chemicals and Chemical Substances (PICCS)	In compliance with inventory
New Zealand / Inventory of Chemicals (NZIOC)	In compliance with inventory

Poison Schedule	None allocated
WHMIS	This SDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR.
REACH Number	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
Massachusetts Right to Know Components	No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right to Know Components	Strontium carbonate / CAS No. 1633-05-2
New Jersey Right to Know Components	Strontium carbonate / CAS No. 1633-05-2
California Prop. 65 Components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Labelling

Label Hazard Warning: As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

Label Precautions: None

Label First Aid: Not applicable

Product Use: Laboratory reagent

16. OTHER INFORMATION

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San Francisco CA 94129
United States

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Revision Number 2

Revision Note Required review and update

ISOFLEX USA's Commonly Used Abbreviations and Acronyms*

ACGIH	American Conference of Governmental Industrial Hygienists
ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
AICS	Australian Inventory of Chemical Substances
ALARA	As Low As Is Reasonably Achievable
AMU	Atomic Mass Unit
ANSI	American National Standards Institute
BLS	Basic Life Support
BOD5	Biochemical Oxygen Demand
CAM	Continuous Air Monitor
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CEN	European Committee for Standardization
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CLP	Classification, Labelling and Packaging (European Union)
COD	Chemical Oxygen Demand
CPR	Controlled Products Regulations (Canada)
CWA	Clean Water Act (USA)
DAC	Derived Air Concentration (USA)
DOE	United States Department of Energy (USA)
DOT	United States Department of Transportation (USA)
DSL	Domestic Substances List (Canada)
EC50	Half Maximal Effective Concentration
ECL	Korean Existing Chemicals List
EINECS	European Inventory of Existing Commercial Chemical Substances
EHS	Environmentally Hazardous Substance
ELINCS	European List of Notified Chemical Substances
EMS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EPA	Environmental Protection Agency (USA)
EPCRA	Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986
GHS	Globally Harmonized System
HMIS	Hazardous Materials Identification System (USA)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Containers
ICAO	International Civil Aviation Organization

IDLH	Immediately Dangerous to Life or Health
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
IMDG	International Maritime Code for Dangerous Goods
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
LDLO	Lethal Dose Low
LOEC	Lowest-Observed-Effective Concentration
MARPOL	International Convention for the Prevention of Pollution from Ships
MSHA	Mine Safety and Health Administration (USA)
NCRP	National Council on Radiation Protection & Measurements (USA)
NDSL	Non-Domestic Substances List (Canada)
NFPA	National Fire Protection Association (USA)
NIOSH	National Institute for Occupational Safety and Health (USA)
NOEC	No Observed Effect Concentration
N.O.S.	Not Otherwise Specified
NRC	Nuclear Regulatory Commission (USA)
NTP	National Toxicology Program (USA)
OSHA	Occupational Safety and Health Administration (USA)
PBT	Persistent Bioaccumulative and Toxic Chemical
PEL	Permissible Exposure Limit
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PIH	Poisonous by Inhalation Hazard
RCRA	Resource Conservation and Recovery Act (USA)
RCT	Radiation Control Technician
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (Europe)
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
RQ	Reportable Quantity
RTECS	Registry of Toxic Effects of Chemical Substances
SARA	Superfund Amendments and Reauthorization Act (USA)
SNUR	Significant New Use Rule (TSCA)
TDG	Transportation of Dangerous Goods (Canada)
TIH	Toxic by Inhalation Hazard
TLV	Threshold Limit Value
TPQ	Threshold Planning Quantity
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
UN	United Nations (Number)
VOC	Volatile Organic Compound
vPvB	Very Persistent Very Bioaccumulative Chemical
WGK	Wassergefährdungsklassen (Germany: Water Hazard Classes)
WHMIS	Workplace Hazardous Materials Information System

*One or more of the above-listed items may not appear in this document.

General Disclaimer

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