



# SAFETY DATA SHEET

Preparation Date: 8/18/2017 Revision date 04/18/2019 Revision Number: G2

# 1. IDENTIFICATION

Product identifier

Product code: S2031

Product Name: STRONTIUM ACETATE, REAGENT

Other means of identification

Synonyms: Strontium diacetate

Acetic acid, strontium salt Strontium acetate hydrate

CAS #: 543-94-2
RTECS # AJ4725000
CI#: Not available

Recommended use of the chemical and restrictions on use

**Recommended use:** Toothpaste. Research and Development. Manufacture of substances.

Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person:Tom Tyner (USA - West Coast)Contact Person:Ibad Tirmiz (USA - East Coast)

# 2. HAZARDS IDENTIFICATION

### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

# Label elements

Not hazardous			

#### Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards
Not available

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#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Strontium Acetate	543-94-2	100

#### 4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms Health injuries are not known or expected under normal use

May affect the adrenal gland

May affect the liver May affect the blood

Ingestion of large amounts may cause vomiting, cholic, and diarrhea.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

**Protection of first-aiders** 

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

# 5. FIRE-FIGHTING MEASURES

**Extinguishing Media** 

Suitable Extinguishing Media: Use water spray or water mist, alcohol-resistant foam, Dry

chemical or Carbon dioxide (CO2).

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous combustion products Carbon dioxide (CO2).

Specific hazards May be combustible at high temperatures. Fire may

produce irritating and/or toxic gases.

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# **Special Protective Actions for Firefighters**

Specific Methods: No information available

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin,

eyes and clothing. Avoid breathing dust. Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent entry into waterways,

sewers, basements or confined areas. Prevent product from entering drains.

### Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

### Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

# **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

# **Incompatible Materials:**

Strong oxidizing agents

Strong acids

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

# National occupational exposure limits

#### **United States**

0	OAO NE	ОСПУ	MICOLL	400111	AILA WEEL
Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL

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ſ	Strontium Acetate	543-94-2	None	None	None	None

#### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Strontium Acetate	543-94-2	None	None	None	None

### **Australia and Mexico**

Component	CAS No	Australia	Mexico
Strontium Acetate	543-94-2	None	None

# **Appropriate engineering controls**

**Engineering measures to reduce exposure:** Ensure adequate ventilation. Use process enclosures,

local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants

below the exposure limit.

## Individual protection measures, such as personal protective equipment

### **Personal Protective Equipment**

**Eye protection:** Goggles or Safety glasses with side-shields.

Skin and body protection: Gloves

Long sleeved clothing Chemical resistant apron

**Respiratory protection:** Effective dust mask. Use a dust respirator under conditions where exposure to

the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified

respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product When using, do not eat, drink or smoke.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:SolidCrystalline powder.White.

Odor: Taste Formula

Slight acetic acid odor. No information available. C4H6O4Sr.1/2H2O

Molecular/Formula weight (g/mole): Flammability (solid, gas) Flashpoint (°C/°F):

214.72 no data available No information available

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%): Not available

No information available

No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available 150°C/302°F No information available

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Boiling point/range(°C/°F): Bulk density: Density (g/cm3):

No information available 
No information available 
No information available

Specific gravity: pH

2.099 No information available

Vapor pressure @ 20°C (kPa):

No information available

**Evaporation rate:** Vapor density:

No information available 
No information available

VOC content (g/L):
No information available

**Viscosity:** 

Odor threshold (ppm): Partition coefficient

No information available (n-octanol/water):

No information available

tanol/water): No information available

Miscibility: Solubility: Soluble in \

Soluble in Water

Slightly soluble in alcohol

# 10. STABILITY AND REACTIVITY

Reactivity

No information available

**Chemical stability** 

**Stability:** Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Incompatible materials.

<u>Incompatible Materials:</u> Strong oxidizing agents

Strong acids

Hazardous decomposition

Carbon oxides. Strontium oxide.

Other Information

products:

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Principal Routes of Exposure:** Ingestion. Inhalation. Skin. Eyes.

**Acute Toxicity** 

### **Component Information**

Strontium Acetate
CAS No 543-94-2

LD50/oral/rat = No information available

**LD50/oral/mouse** = No information available

**LD50/dermal/rabbit** = No information available

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LD50/dermal/rat = No information available LC50/inhalation/rat = No information available LC50/inhalation/mouse = No information available Other LD50 or LC50information = 239 mg/kg intravenous LDLo mouse 123 mg/kg intravenous LDLo rat

### **Product Information**

LD50/oral/rat =

Value - Acute Tox = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

**Value - Acute Tox =** No information available

LD50/dermal/rat

**VALUE - Acute Tox Dermal =** No information available

LC50/inhalation/rat

VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

**Symptoms** 

**Skin Contact:** May cause skin irritation.

**Eve Contact:** May cause eye irritation.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** Health injuries are not known or expected under normal use. May cause digestive

(gastrointestinal) tract irritation with nausea, vomiting, diarrhea.

**Aspiration hazard** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Prolonged or repeated exposure in high doses may cause changes in blood

clotting factors, adrenal function, and liver function.

**Sensitization:** No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Component	CAS No	IARC	ACGIH -	NTP	OSHA HCS -	Australia -	Australia -
-			Carcinogens		Carcinogens	Notifiable	Prohibited

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						Carcinogenic Substances	Carcinogenic Substances
Strontium Acetate	543-94-2	Not listed	Not listed				

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects:No information availableDevelopmental Effects:No information availableTeratogenic Effects:No information available

**Specific Target Organ Toxicity** 

STOT - single exposure STOT - repeated exposure Target Organs:

No information available. No information available. No information available.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

Mobility in soilNo information availableOther adverse effectsNo information available.

## 13. DISPOSAL CONSIDERATIONS

# **Disposal Methods**

## Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

## Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal.

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Strontium Acetate	543-94-2	None	None	None	None

# 14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name: No information available

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Hazard Class
Subsidiary Class
Packing group:
No information available
No information available
No information available
No information available

Number

Marine Pollutant No data available

DOT RQ (lbs):

Special Provisions
Symbol(s):

No information available
No information available
No information available
No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available

**ADR** 

UN Number Not regulated

Proper Shipping Name:
Transport hazard class(es)
Packing group
Subsidiary Risk:

No information available
No information available
No information available

**IMDG** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

**RID** 

**UN Number** Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group

No information available
No information available
No information available

ICAO (air)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available

IATA

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group
Precautionary Statements No information available
No information available
No information available
No information available

Frecautionary Statement

Response

Special Provisions No information available

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# 15. REGULATORY INFORMATION

#### International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Strontium Acetate	543-94-2	PresentACTIV E	Not present	Present	Present (2)-693	Present	Present	Present 208-854-8

# **U.S. Regulations**

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

## Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Strontium Acetate	543-94-2	Not Listed	Not Listed	Not Listed	Not Listed

## **CERCLA/SARA**

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Strontium Acetate	543-94-2	None	None	None	None	None

### **U.S. TSCA**

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Strontium Acetate	543-94-2	Not Applicable	Not Applicable

# Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Not a dangerous product according to HPR classification criteria.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

### **DSL/NDSL**

Component	CAS No	Canada (DSL)	Canada (NDSL)

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Strontium Acetate	543-94-2	Not Listed	Present
Component		CAS No	CEPA Schedule I - Toxic Substances
Strontium Acetate		543-94-2	Not listed
Component		CAS No	CEPA - 2010 Greenhouse Gases Subject
			to Mandatory Reporting
Strontium Acetate	-	543-94-2	Not listed

#### **EU Classification**

#### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Strontium Acetate	543-94-2	

#### EU - CLP (1272/2008)

#### R-phrase(s)

not determined (not applicable)

## S -phrase(s)

none

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Strontium Acetate	543-94-2		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

# Indication of danger:

None

## **16. OTHER INFORMATION**

**Preparation Date:** 8/18/2017 04/18/2019 **Revision date** 

Prepared by: Roumann Pangilinan

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This

> is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the

Safety Data Sheet (SDS) applies only to the material as packaged. If this product

completeness or accuracy of the information contained herein.

**End of Safety Data Sheet** 

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