# Strontium chromate: sc-272506



#### MATERIAL SAFETY DATA SHEET

The Power to Ouestion

#### 1 Identification of substance:

Product Name:

Strontium chromate

Catalog Number: sc-272506

Supplier:

Santa Cruz Biotechnology, Inc.

2145 Delaware Avenue

Santa Cruz, California 95060 800.457.3801 or 831.457.3800

Emergency:

ChemWatch

Within the US & Canada: 877-715-9305 Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

#### 2: Hazard(s) identification

Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



GHS03 Flame over circle

Ox. Sol. 3 H272 May intensify fire; oxidizer.



GHS08 Health hazard

Carc. 1A H350 May cause cancer.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

🖳 T; Toxic

R45: May cause cancer.



R22: Harmful if swallowed.

Langerous for the environment

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **Information concerning particular hazards for human and environment:** Not applicable **Hazards not otherwise classified** No information known.

Label elements

Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labeled according to the CLP regulation. Hazard pictograms





**GHS03 GHS08** 

Signal word Danger

Hazard statements H272 May intensify fire; oxidizer. H350 May cause cancer.

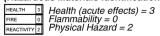
Precautionary statements
P221 Take any precaution to avoid mixing with combustibles.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P220 Keep/Store away from clothing/combustible materials.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P504 Pictore of state (septiment) is accordance with local/regional/action.

P300+P313 II exposed of concerned. Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS classification

C - Oxidizing materials D1B - Toxic material causing immediate and serious toxic effects D2A - Very toxic material causing other toxic effects



Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)



Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.

vPvB: Not applicable.

#### 3: Composition/information on ingredients

Chemical characterization: Substances CAS# Description: 7789-06-2 Strontium chromate Identification number(s): EC number: 232-142-6 Index number: 024-009-00-4

#### 4: First-aid measures

#### Description of first aid measures

After inhalation
Supply fresh air. If required, provide artificial respiration. Keep patient warm.
Seek immediate medical advice.

After skin contact
Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice.

Seek immediate medical advice.

After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing Seek medical treatment.

Information for doctor

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### 5: Fire-fighting measures

Extinguishing media
Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents Halocarbon extinguisher
Special hazards arising from the substance or mixture
This substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.
If this product is involved in a fire, the following can be released:

Chromium oxides
Strontium oxide
Advice for firefighters
Protective equipment:
Wear self-contained respirator.
Wear fully protective impervious suit.

#### 6: Accidental release measures

# Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Ensure adequate ventilation

Environmental precautions:

Do not allow material to be released to the environment without proper governmental permits.

Do not allow product to reach sewage system or any water course.

Do not allow to penetrate the ground/soil.

Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13.

Prevention of secondary hazards:

Acts as an oxidizing agent on organic materials such as wood, paper and fats

Keep away from combustible material.

Reference to other sections.

Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7: Handling and storage

Precautions for safe handling

Precautions for safe handling
Keep container tightly sealed.
Store in cool, dry place in tightly closed containers.
Ensure good ventilation at the workplace.
Open and handle container with care.
Information about protection against explosions and fires:
Substance/product can reduce the ignition temperature of flammable substances.
This substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.

### Conditions for safe storage, including any incompatibilities

Storage
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility:
Store away from flammable substances.
Store away from reducing agents.
Do not store with organic materials.
Store away from metal powders.
Further information about storage conditions:
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
Specific end use(s) No further relevant information available.

#### 8: Exposure controls/personal protection

Additional information about design of technical systems:
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters

Components with limit values that require monitoring at the workplace:

**7789-06-2 Strontium chromate (100.0%)**PEL (USA) Long-term value: 0.005 mg/m³ as Cr, see 29 CFR 1910.1026

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(Contd. of page 2)

REL (USA)

Long-term value: 0.001 mg/m³ as Cr; See Pocket Guide Apps. A and C

TLV (USA)

Long-term value: 0.0005 mg/m<sup>3</sup> EL (Canada) Long-term value: 0.0005 mg/m³ ACIGH A2

EV (Canada) Long-term value: 0.0005 mg/m³ as Cr

#### Ingredients with biological limit values:

#### 7789-06-2 Strontium chromate (100.0%)

BEI (USA) 25 µg/L Medium: urine Time: end of shift at end of workweek Parameter: Total chromium (fume)

10 μg/L Medium: urine Time: increase during shift Parameter: Total chromium (fume)

#### Additional information: No data

Exposure controls

Exposure controls
Personal protective equipment
General protective and hygienic measures
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Remove all soiled and contaminated clothing immediately.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Maintain an ergonomically appropriate working environment.
Breathing equipment: Use suitable respirator when high concentrations are present.
Recommended filter device for short term use:
Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.
Protection of hands:
Impervious gloves

Inpervious gloves
Impervious gloves
Check protection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.
Eye protection: Safety glasses
Body protection: Protective work clothing.

#### 9: Physical and chemical properties

# Information on basic physical and chemical properties General Information

Appearance: Form:

Odor: Odor threshold:

Powder Odorless Not determined.

#### pH-value: Not applicable.

Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined Not determined

Flash point: Flammability (solid, gaseous)

Not applicable Contact with combustible material may cause fire. Ignition temperature: Decomposition temperature: Auto igniting: Not determined Not determined

Danger of explosion: Explosion limits: Lower: Upper: Upper:
Vapor pressure:
Density at 20 °C (68 °F):
Relative density
Vapor density
Evaporation rate
Solubility in / Miscibility with
Water:
Partition coefficient (proctage

water: Slightly soluble Partition coefficient (n-octanol/water): Not determined. Viscosity:

dynamic: kinematic: Other information

Product does not present an explosion hazard.

Not determined Not determined

Not applicable. 3.895 g/cm³ (32.504 lbs/gal) Not determined. Not applicable.

Not applicable.

Not applicable. Not applicable. No further relevant information available.

## 10: Stability and reactivity

Reactivity May intensify fire; oxidizer.
Chemical stability Stable under recommended storage conditions.
Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.
Possibility of hazardous reactions
Reacts with reducing agents
Reacts with flammable substances
Incompatible materials:
Flammable substances
Reducing agents
Organic materials
Organic materials
Metal powders

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Hazardous decomposition products:

Chromium oxides Strontium oxide

#### 11: Toxicological information

Information on toxicological effects
Acute toxicity:
Harmful if swallowed.
The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.

LD/LC50 values that are relevant for classification:

Oral LD50 3118 mg/kg (rat)

Skin irritation or corrosion: Irritant to skin and mucous membranes.
Eye irritation or corrosion: Irritating effect.
Sensitization: No sensitizing effects known.
Germ cell mutagenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.

Germ cell mutagenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.

Carcinogenicity:

May cause cancer.

IARC-1: Carcinogenic to humans: sufficient evidence of carcinogenicity.

ACGIH A1: Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, or convincing clinical evidence in, exposed humans.

NTP-K: Known to be carcinogenic: sufficient evidence from human studies.

(inhalation) EPA-A: human carcinogen: sufficient evidence from epidemiologic studies to support a causal association between exposure and cancer.

(inhalation) EPA-K: Known human carcinogens.

(oral) EPA-D: Not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data are available.

(oral) EPA-CBD: Carginogenic potential cannot be determined.

The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this substance.

Reproductive toxicity: No effects known.

Specific target organ system toxicity - repeated exposure: No effects known.

Specific target organ system toxicity - single exposure: No effects known.

Specific target organ system toxicity - single exposure: No effects known.

Specific target organ system toxicity: No effects known.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

Carcinogenic categories

Carcinogenic categories
OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

#### 12: Ecological information

Toxicity
Aquatic toxicity: No further relevant information available.
Persistence and degradability No further relevant information available.
Bioaccumulative potential No further relevant information available.
Mobility in soi! No further relevant information available.

Remark: Very toxic for aquatic organisms
Additional ecological information:

Additional ecological information:
General notes:
Do not allow material to be released to the environment without proper governmental permits.
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
May cause long lasting harmful effects to aquatic life.
Avoid transfer into the environment.
Venu toys for aquatic prograinment.

Very toxic for aquatic organisms
Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.
Other adverse effects No further relevant information available.

#### 13: Disposal considerations

Waste treatment methods

Recommendation Consult state, local or national regulations to ensure proper disposal.

Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

#### 14: Transport information

UN-Number DOT, IMDG, IATA

UN3087

UN proper shipping name

Oxidizing solid, toxic, n.o.s. (strontium chromate) OXIDIZING SOLID, TOXIC, N.O.S. (strontium chromate) ĬЙĎĠ, IATA Transport hazard class(es)

DOT







Label IMDG, IATA

5.1 Oxidising substances. 5.1+6.1 5.1 (OT2) Oxidizing substances 5.1+6.1

Class Label

5.1 Oxidising substances. 5.1+6.1

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Packing group DOT, IMDG, IATA Ш Environmental hazards: Environmentally hazardous substance, solid Warning: Oxidizing substances F-A,S-Q Special precautions for user EMS Number: Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable Transport/Additional information: DOT Marine Pollutant (DOT): UN "Model Regulation": UN3087, Oxidizing solid, toxic, n.o.s. (strontium chromate), 5.1 (6.1), III

#### 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations
All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.
All components of this product are listed on the Canadian Domestic Substances List (DSL).

SARA Section 313 (specific toxic chemical listings)

7789-06-2 Strontium chromate

California Proposition 65

Prop 65 - Chemicals known to cause cancer

7789-06-2 Strontium chromate

Prop 65 - Developmental toxicity Substance is not listed.

Prop 65 - Developmental toxicity, female

7789-06-2 Strontium chromate

Prop 65 - Developmental toxicity, male

7789-06-2 Strontium chromate

Information about limitation of use:

Information about limitation of use:
Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.
For use only by technically qualified individuals.
Other regulations, limitations and prohibitive regulations
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006.
This substance is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH).
REACH - Pre-registered substances Substance is listed.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information:

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

8/4/2014