



## MATERIAL SAFETY DATA SHEET

Version Number:- 02

PRODUCT NAME: STRONTIUM NITRATE

CAS Number: 10042-76-9

**1. IDENTIFICATION:**

**Product Code** : 93081

**Company Name** : ADVENT CHEMBIO PRIVATE LIMITED

**Address** : W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE,  
NAVI MUMBAI - 400 701, MAHARASHTRA, INDIA.

**E-mail** : [sales@adventchembio.com](mailto:sales@adventchembio.com)

**WEBSITE** : [www.adventchembio.com](http://www.adventchembio.com)

**Company Phone Number** : +91 77770 84837

**2. HAZARDS IDENTIFICATION:****Health hazards**

**Oxidizing solids** : Category 1

**Serious eye damage** : Category 1

**Labels elements** :

**Hazard symbol** :



**Signal word** : Danger

**Hazard statement** : May cause fire or explosion; strong oxidizer.  
Causes serious eye damage.

**Precautionary statement**

**Prevention** : Obtain special instructions before use.  
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.  
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
Keep container tightly closed. Ground/ bond container and receiving equipment.  
Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
Use only non-sparking tools. Take precautionary measures against static discharge.

**Response** : IF exposed or concerned: Get medical advice/ attention.  
IF ON SKIN (or hair): Take off all contaminated clothing. Rinse skin with water/ shower.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage** : Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Disposal** : Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.



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**Other hazards which do not result in GHS classification** : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**3. COMPOSITION/ INFORMATION ON INGRADIENTS:**

Ingredient	CAS Number	Percent	Hazardous
Strontium Nitrate	10042-76-9	NLT 97.0%	Yes

**4. FIRST AID MEASURES:**

**General information** : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

**Ingestion** : Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting.

**Inhalation** : Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen.

**Skin contact** : Get medical attention if symptoms persist.

**Eye contact** : Immediately flush with plenty of water for at least 15 minutes. Get medical attention.

**Most important symptoms/effects, acute and delayed** : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

**Indication of immediate medical attention and special treatment needed** : The most important known symptoms and effects are described in the labelling.

: No data available.

**5. FIRE FIGHTING MEASURES:****General information****Suitable (and unsuitable) extinguishing media**

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

**Unsuitable extinguishing media** : For this substance/mixture no limitations of extinguishing agents are given.

**Specific hazards arising from the chemical** : Nitrogen oxides (NOx), Strontium oxides, Not combustible.

: Has a fire-promoting effect due to release of oxygen.



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Ambient fire may liberate hazardous vapours.

**Special protective equipment and precautions for firefighters**

<b>Special firefighting procedures</b>	:	Fight fire from a protected location. Move containers from fire area if you can do so without risk.
<b>Special protective equipment for fire-fighters</b>	:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**6. ACCIDENTAL RELEASE MEASURES:**

<b>Personal precautions, protective equipment and emergency procedures</b>	:	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Keep unauthorized personnel away.
<b>Methods and material for containment and cleaning up</b>	:	Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
<b>Notification Procedures</b>	:	Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
<b>Environmental precautions</b>	:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**7. HANDLING AND STORAGE:**

<b>Precautions for safe handling</b>	:	Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.
<b>Conditions for safe storage, including any incompatibilities</b>	:	Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks.

**8. EXPOSURE CONTROLS PERSONAL PROTECTION:**

<b>Appropriate engineering controls</b>	:	No data available
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**Individual protection measures, such as personal protective equipment**

<b>General information</b>	:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.
<b>Eye/face protection</b>	:	Wear safety glasses with side shields (or goggles).
<b>Hand protection</b>	:	Chemical resistant gloves.
<b>Other</b>	:	Wear suitable protective clothing.



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Respiratory protection	:	Required when dusts are generated. Recommended Filter type: Filter type P2
Hygiene measures	:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

Appearance	:	White crystalline powder.
Odor	:	odorless
Solubility	:	Soluble in water.
Formula	:	$\text{Sr}(\text{NO}_3)_2$
Molecular Weight	:	211.63 g/mol
Density	:	2.986 g/cm <sup>3</sup> at 20°C
pH	:	6.7 at 20°C
% Volatiles by volume @ 21C (70F)	:	No data available
Boiling Point	:	645°C
Melting Point	:	570°C
Flash Point	:	No data available
Vapor Density (Air=1)	:	No data available
Vapor Pressure (mm Hg)	:	No data available
Evaporation Rate (BuAc=1)	:	No data available

**10. STABILITY AND REACTIVITY:**

Reactivity	:	No data available
Chemical stability	:	Material is stable under ambient conditions..
Possibility of hazardous reactions	:	Violent reactions possible with: combustible substances, Powdered metals, sulfur, oxidisable substances, Polyvinyl chloride
Conditions to avoid	:	No data available
Incompatible materials	:	No data available.
Hazardous decomposition products	:	In the event of fire: see section 5



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**11. TOXICOLOGICAL INFORMATION:**

## Information on toxicological effects

## Acute toxicity (list all possible routes of exposure)

Oral Product	: LD 50 Oral - Rat - female - > 2.000 mg/kg
Dermal Product	: No data available
Inhalation Product	: LC 50 Inhalation - Rat - male and female - 4 h - > 4,5 mg/l - aerosol
Repeated dose toxicity Product	: No data available.
Skin corrosion/irritation Product	: Skin - reconstructed human epidermis (RhE) Result: No skin irritation - 15 min
Serious eye damage/eye irritation Product	: Eyes - Rabbit Result: Irreversible effects on the eye
Respiratory or skin sensitization Product	: Maximization Test - Guinea pig Result: negative
Carcinogenicity Product	: No data available
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	: No data available
US. National Toxicology Program (NTP) Report on Carcinogens	: No data available
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	: No data available
Germ cell mutagenicity	Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 : Result: negative Test Type: Mutagenicity (mammal cell test): micronucleus. Test system: Human lymphocytes Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 487 Result: negative
Reproductive toxicity Product	: No data available
Specific target organ toxicity - single exposure Product	: No data available
Specific target organ toxicity - repeated	: No data available



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## exposure Product

Aspiration hazard Product : No data available

Other effects : None known.

## 12. ECOLOGICAL INFORMATION:

## Ecotoxicity

## Acute hazards to the aquatic environment

Fish Product : static test LC 50 - Cyprinus carpio (Carp) - &gt; 97,5 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates : static test LC 50 - Daphnia magna (Water flea) - 125 mg/l - 48 h

Toxicity to algae : static test ErC50 - Pseudokirchneriella subcapitata (green algae) - &gt; 104,7 mg/l - 72 h

Toxicity to bacteria : static test EC50 - activated sludge - &gt; 100 mg/l - 3 h

## Chronic hazards to the aquatic environment

Fish Product : flow-through test NOEC - Danio rerio (zebra fish) - &gt;= 100 mg/l - 34 d

Toxicity to daphnia and other aquatic invertebrates : semi-static test NOEC - Daphnia magna (Water flea) - 21 mg/l - 21 d

## Persistence and degradability

Biodegradation Product : The methods for determining the biological degradability are not applicable to inorganic substances.

BOD/COD ratio Product : No data available.

## Bioaccumulative potential

Bioconcentration factor (BCF) Product : No data available

Partition coefficient n-octanol / water (log Kow) : No data available.

## Product

Mobility in soil : No data available

Other adverse effects : No data available

## 13. DISPOSAL CONSIDERATION:

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.

Contaminated packaging : Since emptied containers retain product residue, follow label warnings even after container is emptied.



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## 14. TRANSPORT INFORMATION:

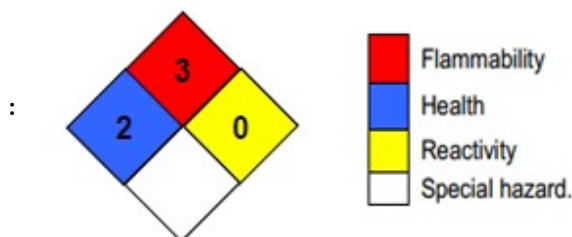
	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
ADR/RID	UN 1507	Strontium Nitrate	5.1	III	No
IMDG	UN 1507	Strontium Nitrate	5.1	III	No
IATA	UN 1507	Strontium Nitrate	5.1	III	No

## 15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.  
Safety, health and environmental regulations/legislation specific for the substance or mixture  
No Data Available.

## 16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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