

# Strontium Nitrate

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product name: Strontium Nitrate  
CAS Number: 10042-76-9  
EC Number: 233-131-9

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use: Uses in pyrotechnics. Manufacture of substances. Laboratory reagent

### 1.3 Details of the supplier of the safety data sheet

Company name: East Harbour Group Ltd  
20 Clough Road, Severalls Industrial Park  
Colchester, Essex, CO4 9QS  
United Kingdom

Telephone: +44 (0) 333 242 0100  
Email: [info@eastharbourgroup.com](mailto:info@eastharbourgroup.com)

### 1.4 Emergency telephone number

Emergency telephone: 0800 246 1274

## Section 2: Hazardous identification

### 2.1 Classification of the substance or mixture

Classification under CLP: Ox. Sol. 1: H271; Eye Dam. 1: H318

Most important adverse effects: May cause fire or explosion; strong oxidiser. Causes serious eye damage.

### 2.2 Label elements

Hazard statements: H271: May cause fire or explosion; strong oxidiser. H318: Causes serious eye damage.

Hazard pictograms: GHS03: Flame over circle GHS05: Corrosion



Signal words: Danger

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Precautionary statements: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P220: Keep away from clothing and other combustible materials. P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P306+P360: IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes. P371+P380+P375: In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. P501: Dispose of contents/container to approved waste facility

## 2.3 Other hazards

PBT: This product is not identified as a PBT/vPvB substance

## Section 3: Composition/information on ingredients

### 3.1. Substances

|               |                   |
|---------------|-------------------|
| Product name: | Strontium Nitrate |
| CAS-No.:      | 10042-76-9        |
| EINECS No.:   | 233-131-9         |

## Section 4: First aid measures

### 4.1 Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. Seek medical attention if irritation or symptoms persist.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor. Remove contact lenses.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor. Show the label or this data sheet to the doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

### 4.2 Most important symptoms and effects, both acute and delayed

Skin contact: There may be mild irritation at the site of contact. Eye contact: Causes serious eye irritation. May cause permanent damage. Ingestion: There may be irritation of the throat. Inhalation: There may be a feeling of tightness in the chest with shortness of breath.

## Section 5: Fire-fighting measures

### 5.1 Fire Fighting Media and Instructions:

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: no data available

### 5.2 Special hazards arising from the substance or mixture

Oxidising. In combustion emits toxic fumes

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## 5.3 Advice for firefighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes

## Section 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Remove all incompatible materials as outlined in section 10 of SDS. Avoid breathing vapours, mist or gas. Ensure adequate ventilation Avoid contact with skin and eyes. Do not smoke. No flames, no sparks. Eliminate all sources of ignition.

### 6.2 Environmental precautions

Do not discharge into drains or rivers. Solid material should be collected and placed in a suitable container for disposal.

### 6.3 Methods and material for containment and cleaning up

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

## Section 7: Handling and storage

### 7.1 Precautions for safe handling

Ensure there is sufficient ventilation of the area.

### 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. Avoid incompatible materials and conditions - see section 10 of SDS.

Suitable packaging: Must only be kept in original packaging.

## Section 8: Exposure controls/personal protection

### 8.1 Control parameters

Workplace exposure limits: No data available

### 8.2 Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Respiratory protective device with particle filter. Particle filter class P3SL (EN143).

Hand protection: Protective gloves. Impermeable gloves.

Eye protection: Safety goggles. Safety glasses with side-shields conforming to EN166 Skin protection:

Protective clothing.

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## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                             |                            |
|-----------------------------|----------------------------|
| State                       | Crystal                    |
| Colour                      | White                      |
| Odor                        | Odourless                  |
| Oxidising                   | Oxidising (by EC criteria) |
| Water Solubility            | Soluble                    |
| Boiling Point/Range         | Not applicable             |
| Melting Point/Range         | 570 C                      |
| Flammability limits % lower | Not applicable             |
| Flammability limits % upper | Not applicable             |
| Flash Point                 | Not applicable             |
| Auto-ignition temperature   | Not applicable             |
| Vapor Pressure              | Not applicable             |
| Relative Density            | 298g/cm <sup>3</sup>       |
| pH                          | Approx. 7                  |

## Section 10: Stability and Reactivity

|   |  |
|---|--|
| 10.1 Reactivity                         | Stable under recommended transport or storage conditions.<br>Potential exothermic hazard   |
| 10.2 Chemical Stability                 | Stable under normal conditions.<br>Stable at room temperature.<br>Potential for exothermic hazard  |
| 10.3 Possibility of hazardous reactions | Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below |
| 10.4 Conditions to avoid                | Heat, water  |
| 10.5 Incompatible materials             | Organic materials. Strong acids. Strong reducing agents. Flammables. Combustibles  |
| 10.6 Hazardous decomposition products   | In combustion emits toxic fumes.   |

# Strontium Nitrate

## Section 11: Toxicological Information

### Product Information

#### 11.1 Toxicological effects:

LD50 Oral – rat – 2,750 mg/kg

LC50 Inhalation - rat - 4 h - > 4.5 mg/l

#### 11.2 Acute Toxicity:

Skin contact: There may be mild irritation at the site of contact.

Eye contact: Causes serious eye irritation. May cause permanent damage.

Ingestion: There may be irritation of the throat.

Inhalation: There may be a feeling of tightness in the chest with shortness of breath.

## Section 12: Ecological Information

### 12.1 Toxicity

#### Ecotoxicity effects

Daphnia magna 48H EC50 125 mg/l

pseudokirchneriella subcapitata 72H EC50 >104.7 mg/l

FISH 96H LC50 >92.8 mg/l

Biodegradability: No data available.

#### Bioaccumulative

No bioaccumulation potential.

## Section 13: Disposal considerations

### 13.1 Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Strontium Nitrate

### Section 14: Transport Information

**14.1 UN number**

UN1507

**14.2 UN proper shipping name**

Shipping name: STRONTIUM NITRATE

**14.3 Transport hazard class(es)**

Transport class: 5.1

**14.4 Packing group**

Packing group: III

**14.5 Environmental hazards**

Environmentally hazardous: No

Marine pollutant: No

**14.6 Special precautions for user**

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

### Section 15: Regulatory Information

None

### Section 16: Other Information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:** H271: May cause fire or explosion; strong oxidiser.

H318: Causes serious eye damage.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.