

# Strontium Peroxide

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

### 1.1. Product identifier

**Product name:** Strontium Peroxide  
**CAS Number:** 1314-18-7  
**EC Number:** 215-224-6

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

**Product use:** Laboratory chemicals, Industrial & for professional use only

### 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

**GHS, Globally harmonized System Classification in accordance with 29 CFR 1910  
Classification according to Regulation (EC) No 1272/2008**

Oxidizing liquids; oxidizing solids Category 1 - H271  
Skin corrosion/irritation Category I A, B, C - H314

**Labelling according to Regulation (EC) No 1272/2008**

### 2.2 Label elements Pictogram



Signal

Danger

**Hazard Statements**

# Strontium Peroxide

H272	May intensify fire; oxidizer.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

## Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P220	Keep/Store away from clothing/other combustible materials.
P221	Take any precaution to avoid mixing with combustibles.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
P362	Take off contaminated clothing and wash before reuse.
P337+P313	If eye irritation persists: Get medical advice/ attention.
P405	Store locked up.
P501	Dispose of contents/container to authorized agents only.

## Classification according to EU Directives 67/548/EEC or 1999/45/EC

Hazard Symbols: X O

Risk Phrases

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 41 Risk of serious damage to eyes.

R 8 Contact with combustible material may cause fire.

## Section 3: Composition/information on ingredients

Product	Strontium Peroxide
CAS No.	1314-18-7
EINECS:	215-224-6

## Section 4: First aid measures

**Always seek medical attention after first aid measures are provided**

### Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

### Ingestion

Never give anything by mouth to an unconscious person. Get medical attention.

### Skin Contact

# Strontium Peroxide

Wipe off excess material from skin then immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

## Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

## Section 5: Fire-fighting measures

### Flammability of the Product

Non-flammable but it is an oxidizer.

### Products of Combustion

It emits toxic strontium oxide and oxygen when heated to decomposition.

### Fire

It is supporting fire as an oxidizer.

### Explosion

Contact with oxidizable substances may cause explosion.

### Fire Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use means suitable for extinguishing surrounding fire.

### Special Information

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. At high temperatures or when moistened under fire conditions, it may produce toxic or irritating fumes.

## Section 6: Accidental release measures

### Small Spill

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

### Large Spill

Do not let the product enter drains. Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system or as required by law.

## Section 7: Handling and storage

Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment.

## Strontium Peroxide

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Wash hands thoroughly after handling. Provide appropriate exhaust ventilation at places where dust is formed. If you feel unwell, seek medical attention.

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage or contact with combustible substances.

### Section 8: Exposure controls/personal protection

#### Airborne Exposure Limits

None established.

#### Ventilation System

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. 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.

#### Personal Respirators (NIOSH Approved)

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator.

#### Skin Protection

Wear protective gloves and clean body-covering clothing.

#### Eye Protection

Use chemical safety goggles and/or full-face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

#### Other Control Measures

Maintain good housekeeping in work area. Dust deposits on floors and other surfaces may pick up moisture and cause the surfaces to become slippery and present safety hazards. Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling.

### Section 9: Physical and chemical properties

Appearance	White or Off-white powder
Odor	None.
Solubility	NA.
pH	NA.
Density	4.6 gm/cc.
Molecular Weight	119.62
Chemical Formula	SrO <sub>2</sub>
% Volatile by volume @ 21°C (70F)	0
Melting Point	215°C (Decomposes)

# Strontium Peroxide

## Section 10: Stability and Reactivity

### Stability

It is stable under recommended conditions of use and storage.

### Hazardous Decomposition Products

It emits strontium oxides and oxygen when heated to decomposition.

### Hazardous Polymerization

Will not occur.

### Incompatibilities

Organic substances, Metal powders and Reducing agents.

### Conditions to avoid

Incompatibles moisture and heat.

## Section 11: Toxicological Information

### Toxicity to Animals

Not available.

### Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC, ACGIH, OSHA and NTP.

### Mutagenic Effects

Not available.

### Teratogenic Effects

Not available. Developmental

### Developmental Toxicity

Not available.

## Section 12: Ecological Information

### Toxicity

Not available.

### Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

## Section 13: Disposal considerations

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.

# Strontium Peroxide

State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements. Small amounts of this material may be suitable for sanitary sewer or trash disposal.

## Section 14: Transport Information

### DOT (USA)

UN number	1509
Class	5.1
Packing group	II
Proper shipping name	Strontium Peroxide

### IMDG

UN number	1509
Class	5.1
Packing group	II
Proper shipping name	Strontium Peroxide

### IATA

UN number	1509
Class	5.1
Packing group	II
Proper shipping name	Strontium Peroxide

## Section 15: Regulatory Information

### USA

#### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard, Reactivity Hazard.

## Section 16: Other Information

### Disclaimer

Our company provides this MSDS sheet in good faith but makes no representation as to its comprehensiveness or accuracy. This SDS sheet is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. The above information has been compiled from various sources and has the possibility of discrepancy and being out-dated information. Individuals receiving the information must exercise their independent judgment and do further search in determining its appropriateness for a particular purpose. In no case shall our company be liable to loss or damages by the product user.