## Vickers Laboratories Ltd - Safety Data Sheet

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1 Revision date: 16 April 2021 12 August 2023 Date printed:

## **Section 1. Identification**

**Product Identifier** 1440

> Product Name STRONTIUM NITRATE pure

CAS Number

**REACH Registration No** A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

Sr(NO,) =211.63 Molecular Formula

#### 1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

#### 1.3 Vickers Laboratories Ltd **Supplier**



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UNITED KINGDOM

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(Have this document to hand)

## **Section 2. Hazards Identification**

#### 2.1 Classification of the substance or mixture

## Classification according to regulation 1272/2008/EC

Oxidising solid, category 1 H271: May cause fire or explosion; strong oxidizer.

Serious eye damage/irritation, category 1 H318: Causes serious eye damage.

#### 2.2 Label elements

#### Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Hazard Statements May cause fire or explosion; strong oxidizer. Causes serious eye damage.

Precautionary Statements Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing /

combustible materials. Wear protective gloves / protective clothing / eye protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the

risk of explosion.

## Section 3. Composition

#### 3.1 Substances

Component	CAS No. EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Strontium Nitrate	10042-76- 9		98%	Ox. Sol. 1,Eye Dam. 1
Barium nitrate	10022-31- 233-020-5 8		<1%	Ox. Sol. 2,Acute Tox. 3 (O),Acute Tox. 4 (I),Eye Irrit. 2

## Section 4. First Aid

#### 4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists

OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water.

Inhalation Remove from exposure. If material has reacted with an acid to form, nitrous fumes, Obtain immediate medical

attention even if patient is not complaining of discomfort.

Ingestion If conscious give plenty of water to drink. Keep warm and at rest. If there is difficulty in breathing give oxygen if

available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL

ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

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

No further relevant information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

## Section 5. Fire Fighting

#### 5.1 Extinguishing media

Extinguishing Media Water spray.
Unsuitable Media Nothing specified.

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

Hazards May evolve toxic fumes if involved in a fire. Mixtures with combustible materials are flammable. Mixtures with

finely divided combustible materials can react explosively.

#### 5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

## Section 6. Accidental Release Measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Evacuate area immediately. If contact with acid is possible, use full protective clothing and breathing apparatus.

Only re-enter area with full protective clothing and breathing apparatus.

#### 6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

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

Major Spillage Shovel/sweep up into container for removal Wash area down with copious amounts of water.

Minor Spillage Wash area down with copious amounts of water.

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

#### Section 7. Storage & Handling

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.

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

Well ventilated, cool, dry storage. Store in a suitable area for oxidising agents. Keep well separated from combustible materials.

#### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

#### 8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits					
			Long Term (8hr TWA)		Short Term 15min period)			
Strontium Nitrate	10042-76-9	98%	-	-	-	-		
Barium nitrate	10022-31-8	<1%	-	-	-	_		

Exposure data source(s) No occupational exposure data currently available.

8.2 Exposure controls

Respiratory Protection If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.

Hand Protection Wear gloves.

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

## Section 9. Physical & Chemical Properties

#### 9.1 Information on basic physical and chemical properties

Appearance White crystalline solid.

Odour Odourless. pН Not applicable 645°C **Boiling Point** 570°C Melting Point Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Auto Ignition Not applicable **Explosive Properties** No.

Oxidising Properties Yes.

Vapour Pressure Not applicable Relative Density 3.0000

Water Solubility Moderately soluble in water.

#### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

**10.1** Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

**10.3** Possibility of hazardous No data available.

reactions

10.4 Conditions to Avoid Hot surfaces and naked flames.
 10.5 Incompatable Materials Reducing agents. Metal powders.
 10.6 Hazardous Decomposition Oxides of strontium and nitrogen.

**Products** 

## Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

Eyes Causes serious eye damage. Risk of irreversible damage to eyes.

Skin Contact with the solid or dust may be irritating to the skin.

LD50 Skin Not available

Ingestion May be harmful if swallowed. Repeated small doses cause a fall in blood pressure, rapid pulse, headache and

visual disturbances. Larger doses cause nausea, vomiting, cyanosis, collapse and coma.

LD50 Oral >2000mg/kg Rat

Inhalation Inhalation of dust may produce irritation of the eyes, nose, throat and respiratory tract.

LD50 Inhalation 4.5mg/l Rat
TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity No information is available.

Reproductive Effects No information is available.

## Section 12. Ecological

12.1 Toxicity Not expected to bioaccumulate or to be hazardous to aquatic species.

LC50 Algal >104.7mg/l Green algae (72 hours)
LC50 Crustacea 125mg/l Daphnia magna (48 hours)

LC50 Fish >97.5mg/l (96 hours)

12.2 Persistence and degradability No data available.

12.3 Bioaccumulative potential No data available.12.4 Mobility in soil No data available.

**12.5** Results of PBT & vPvB Assessment not required.

assessment

12.6 Other adverse effects

None known at present.

# Section 13. Disposal Considerations

## 13.1 Waste treatment methods

Disposal Methods Do not dispose of as domestic waste.

Contaminated Packaging Wash out containers with water.

## **Section 14. Transport Information**

**14.1 UN Number** 1507

14.2 Proper Shipping Name Strontium nitrate

14.3 Transport classes

UN classification 5.1
Subsidiary hazard(s) None
Transport category 3
ADR Hazard ID 50
Tunnel Restriction Code E

14.4 Packing Group III

14.5 Environment hazards See section 12.

**14.6 Special precautions for** No special precautions required.

user

**14.7 Transport in bulk** Not transported in bulk.



## Section 15. Regulatory Information

## $15.1\ Safety, health\ and\ environment\ regulations\ specific\ for\ subtance/mixture.$

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Oxidising solid, category 1; Serious eye damage/irritation, category 1

Signal word Danger

Hazard Pictograms





Hazard Statements H271, H318

May cause fire or explosion; strong oxidizer. Causes serious eye damage.

Precautionary Statements P210, P220, P280, P305+P351+P338, P306+P360, P371+P375

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing / combustible materials. Wear protective gloves / protective clothing / eye protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

#### 15.2 Chemical safety assessment

Assessment not required.

## **Section 16. Other Information**

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information

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