

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 6/17/2019 Version: 1.0

SECTION 1: Identification of the subst	ance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	: Strontium nitrate
EC-No.	: 233-131-9
CAS-No.	: 10042-76-9
Product code	: 42799711
Formula	: N2O6Sr
Product group	: Raw material
1.2. Relevant identified uses of the substant	nce or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Laboratory use,Industrial use,Professional use
Industrial/Professional use spec	: For professional use only
Use of the substance/mixture	: For analytical purposes Scientific research and development Not for human consumption or veterinary purposes.
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety dat	ta sheet
Supplier	
Scafell Organics Molekula Ltd Lingfield Way Darlington - England T +44 (0) 1949 823777 / +44 (0) 7590 545705 info@molekula.com / kbowen@molekula.com - www	w.molekula.com
1.4. Emergency telephone number	
Emergency number :	: +44 (0) 7590 545705
SECTION 2: Hazards identification 2.1. Classification of the substance or mixt	ture
2.1. Classification of the substance or mixt	
2.1. Classification of the substance or mixt Classification according to Regulation (EC) No.	
2.1. Classification of the substance or mixed Classification according to Regulation (EC) No. Oxidising Solids, Category 2	1272/2008 [CLP]
2.1. Classification of the substance or mixt Classification according to Regulation (EC) No. Oxidising Solids, Category 2 Acute toxicity (oral), Category 4	1272/2008 [CLP] H272
2.1. Classification of the substance or mixt Classification according to Regulation (EC) No. Oxidising Solids, Category 2 Acute toxicity (oral), Category 4 Serious eye damage/eye irritation, Category 1	1272/2008 [CLP] H272 H302
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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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	SECTION 3: Composition/information on ingredients		
3.1. Substances			
Name Product ide	tifier %		
Strontium nitrate (CAS-No.) 10042-76-9 (EC-No.) 233-131-9 100			

Full text of H-statements: see section 16

3.2. Mixtures Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: If possible show this sheet, if not available show packaging or label. Never give anything by mouth to an unconscious person. Do not leave affected person unattended.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. If breathing difficulties persist : Get medical advice/attention.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Do not remove clothing if it sticks to the skin. If irritation persists, consult a doctor.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention.
4.2. Most important symptoms and effects, k	both acute and delayed
Symptoms/effects after inhalation	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing). Headache.
Symptoms/effects after skin contact	: May cause moderate irritation, including burning sensation, tearing, redness or swelling. Itching.
Symptoms/effects after eye contact	: Causes serious eye damage. Blurred vision. redness, itching, tears. stinging.
Symptoms/effects after ingestion	: Swallowing this material may result in health hazard. Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting.

4.3. Indication of any immediate medical attention and special treatment needed Get immediate medical advice/attention.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the substa	ince or mixture
Fire hazard	: May intensify fire; oxidiser.
Hazardous decomposition products in case of fire	: Nitrogen oxides. Strontium oxides.
5.3. Advice for firefighters	
Precautionary measures fire	: Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials.
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Warn all persons of toxic hazard.

SECTION 6: Accidental release measures	S		
6.1. Personal precautions, protective equipme	ent and emergency procedures		
General measures	: Isolate from fire, if possible, without unnecessary risk. Avoid dust formation. No flames, no sparks. Eliminate all sources of ignition.		
6.1.1. For non-emergency personnel			
Protective equipment	: Wear recommended personal protective equipment.		
Emergency procedures	: Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Do not touch or walk on the spilled product. Avoid contact with skin, eyes and clothing.		
Measures in case of dust release	: Keep upwind. Avoid creating or spreading dust. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).		
6.1.2. For emergency responders			
Protective equipment	: Equip cleanup crew with proper protection. Use self-contained breathing apparatus and chemically protective clothing.		
Emergency procedures	: Ventilate area.		

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6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: On land, sweep or shovel into suitable containers. Shovel or sweep up and put in a closed container for disposal.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid creating or spreading dust. Provide local exhaust or general room ventilation.
Hygiene measures	: Take off immediately all contaminated clothing and wash it before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.
7.2. Conditions for safe storage, including a	ny incompatibilities
Technical measures	: Ensure adequate ventilation, especially in confined areas.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight. Keep container closed when not in use.
Incompatible products	: Acids. reducing agents.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.
Heat and ignition sources	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Information on mixed storage	: May cause or intensify fire; oxidizer.
Storage area	: Keep away from combustible materials. Store below 20 °C. Store in a dry place. Store in a closed container.

7.3. Specific end use(s) For analytical purposes. Scientific research and development. Not for human consumption or veterinary purposes.

SECTION 8: Expos		rois/perso	onal protection				
3.1. Control paramet No additional information							
3.2. Exposure contro							
Appropriate engineerin							
	-		e and safety procedures.				
Personal protective eq	uipment:						
Avoid all unnecessary ex	kposure.						
Materials for protectiv	e clothing:						
Wear suitable protective	e clothing, gl	oves and eye	e/face protection				
Hand protection:							
The protective gloves to	be used mu	ust comply wi	ith the specifications of t	ne regulation 2016/425 ar	nd the resul	tant standard	EN 374
Туре	Material		Permeation	Thickness (mm)	Penetratio	on	Standard
Disposable gloves	Nitrile rubb	er (NBR)	6 (> 480 minutes)	0.11			EN 374
Eye protection:							
Emergency eye wash fo designed to protect aga			ble in the immediate vici	nity of any potential expo	sure. Use e	ye protection a	according to EN 166,
Туре		Use		Characteristics		Standard	
Safety goggles Fine dust, Dust			tightly fitting safety goggles, With EN 166 side shields				
Skin and body protect	ion:					·	
Emergency safety show clothing readily available			n the immediate vicinity o	of any potential exposure.	Keep suita	ble chemicall	y resistant protective
Туре				Standard			
Protective clothing (with	elasticated	cuffs and clo	sed neck)	EN ISO 13982			
Respiratory protectior	ı:						
Keep self contained bre protection equipment is			available for emergency	use. Where exposure thr	ough inhala	tion may occu	Ir from use, respirator
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Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	Type P1, Type P2	Dust protection	EN 14387

Other information:

Do not eat, drink or smoke during use.

9.1. Information on basic physical and c	
Physical state	: Solid
Molecular mass	: 211.63 g/mol
Colour	: white.
Odour	: No data available.
Odour threshold	: No data available
pН	: 5 - 7 at 25 °C
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 570 °C lit.
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 2.98 g/cm3 at 20 °C
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	

No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under recommended handling and storage conditions (see section 7).
10.3. Possibility of hazardous reactions
May intensify fire; oxidiser.
10.4. Conditions to avoid
Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
10.5. Incompatible materials
Acids. reducing agents.
10.6. Hazardous decomposition products
No hazardous decomposition products known at room temperature. Thermal decomposition generates : Nitrogen oxides. Strontium oxides.

SECTION 11: Toxicological information 11.1. Information on toxicological effects	
	Oral: Harmful if swallowed.
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Strontium nitrate (10042-76-9)	
LD50 oral rat	1892 mg/kg
Skin corrosion/irritation	Not classified
	pH: 5 - 7 at 25 °C
Additional information	Based on available data, the classification criteria are not met

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Serious eye damage/irritation	: Causes serious eye damage.
	pH: 5 - 7 at 25 °C
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information		
12.1. Toxicity		
Acute aquatic toxicity : Not classified		
Chronic aquatic toxicity :	Not classified	
12.2. Persistence and degradability		
Strontium nitrate (10042-76-9)		
Persistence and degradability	No data available.	
12.3. Bioaccumulative potential		
Strontium nitrate (10042-76-9)		
Bioaccumulative potential	No data available.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
Strontium nitrate (10042-76-9)		
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
12.6. Other adverse effects		
Additional information :	Avoid release to the environment.	

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
1507	1507	1507	1507	1507
14.2. UN proper shipping name				
STRONTIUM NITRATE	STRONTIUM NITRATE	Strontium nitrate	STRONTIUM NITRATE	STRONTIUM NITRATE

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according to Regulation (EC) NO.	1907/2000 (REACH) WITH IS AIN	enument Regulation (EO) 2015/650			
Transport document descri	iption				
UN 1507 STRONTIUM	UN 1507 STRONTIUM	UN 1507 Strontium nitrate	UN 1507 STRONTIUM	UN 1507 STRONTIUM	
NITRATE (Strontium	NITRATE (Strontium	(Strontium nitrate), 5.1, III	NITRATE (Strontium	NITRATE (Strontium	
nitrate), 5.1, III, (E)	nitrate), 5.1, III		nitrate), 5.1, III	nitrate), 5.1, III	
14.3. Transport hazard c	lass(es)				
5.1	5.1	5.1	5.1	5.1	
	<u>^</u>				
Ö	Ö	Ö	Ö	Ö	
5.1	5.1	5.1	5.1	5.1	
14.4. Packing group					
III	III	III	III	III	
14.5. Environmental haz	ards				
Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	
environment : No	environment : No	environment : No	environment : No	environment : No	
	Marine pollutant : No				
No supplementary information					
14.6. Special precautions Overland transport	s for user				
Classification code (ADR)	: 0	2			
_imited quantities (ADR)	: 5k				
Excepted quantities (ADR)	: E [,]				
Packing instructions (ADR)		: E1 : P002, IBC08, LP02, R001			
Special packing provisions (Al		: B3			
Mixed packing provisions (AD		P10			
Portable tank and bulk contain		: T1			
ADR)					
Portable tank and bulk contair ADR)	ner special provisions :Tf	233			
Tank code (ADR)	: S0	GAV			
Tank special provisions (ADR) : TU3					
		: AT			
5		: 3			
Special provisions for carriage	e - Bulk (ADR) : Vo	: VC1, VC2, AP6, AP7			
Special provisions for carriage - Loading, unloading and handling (ADR)		: CV24			
Hazard identification number ()			
Orange plates	· í í	E 0			
		50			
		1507			
Funnel restriction code (ADR)	: E				
EAC code	: 12	2			
Fransport by sea					
imited quantities (IMDG)	: 5				
		: E1			
		: P002, LP02			
		: IBC08			
		: B3			
Tank instructions (IMDG)		: T1			
Tank special provisions (IMDC	G) : TF				
Tank special provisions (IMDC EmS-No. (Fire)	G) : TF : F-	A			
Fank special provisions (IMDC EmS-No. (Fire) EmS-No. (Spillage)	G) : TF : F- : S-	A			
Tank special provisions (IMDC	G) : TF : F- : S- : A	A			

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Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y546
PCA limited quantity max net quantity (IATA)	: 10kg
PCA packing instructions (IATA)	: 559
PCA max net quantity (IATA)	: 25kg
CAO packing instructions (IATA)	: 563
CAO max net quantity (IATA)	: 100kg
Special provisions (IATA)	: A803
ERG code (IATA)	: 5L
Inland waterway transport	
Classification code (ADN)	: 02
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: B
Equipment required (ADN)	: PP
Provisions prior to loading (ADN)	: LO04
Provisions for carriage in bulk (ADN)	: CO02
Number of blue cones/lights (ADN)	: 0
Additional requirements/Remarks (ADN)	: CO02 and LO04 apply only when this substance is carried in bulk or without packaging
Rail transport	
Classification code (RID)	: 02
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P002, IBC08, LP02, R001
Special packing provisions (RID)	: B3
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T1
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAV
Special provisions for RID tanks (RID)	: TU3
Transport category (RID)	: 3
Special provisions for carriage – Bulk (RID)	: VC1, VC2, AP6, AP7
Special provisions for carriage - Loading, unloading and handling (RID)	: CW24
Colis express (express parcels) (RID)	: CE11
Hazard identification number (RID)	: 50
14.7. Transport in bulk according to Annex	II of Marpol and the IBC Code

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions Strontium nitrate is not on the REACH Candidate List Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed

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NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information		
	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.	
Other information : None.		
Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Ox. Sol. 2	Oxidising Solids, Category 2	
H272	May intensify fire; oxidiser.	
H302	Harmful if swallowed.	
H318	Causes serious eye damage.	

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.