Safety data sheet

		Safety data sheet according to 1907/2006/EC, Article 31	Page 1/7
Pı	rinting date 18.07.	.2021	Revision: 18.07.2021
	SECTION 1:	: Identification of the substance/mixture and of the compar	ıy/undertaking
	· 1.1 Product ide	entifier	
	· Trade name: L	anthanum ingot (99.9% REO)	
		57-5747 entified uses of the substance or mixture and uses advised against vant information available.	
	 1.3 Details of th Manufacturer/S Strem Chemical 7 Mulliken Way NEWBURYPOH USA info@strem.com 	ls, Inc. , RT, MA 01950	
	• 1.4 Emergency EMERGENCY:	nation obtainable from: Technical Department telephone number: CHEMTREC: + 1 (800) 424-9300 opening times: +1 (978) 499-1600	
_			
	SECTION 2:	: Hazards identification	
	• 2.1 Classification • Classification a GHS0 Flam. Sol. 1	on of the substance or mixture according to Regulation (EC) No 1272/2008 102 flame H228 Flammable solid.	
	 2.1 Classification Classification a Classification a GHS0 Flam. Sol. 1 Water-react. 2 2.2 Label elemet Labelling according 	on of the substance or mixture according to Regulation (EC) No 1272/2008 102 flame H228 Flammable solid. H261 In contact with water releases flammable gases. ents rding to Regulation (EC) No 1272/2008 is classified and labelled according to the CLP regulation.	
	 2.1 Classification Classification a Classification a GHS0 Flam. Sol. 1 Water-react. 2 2.2 Label element Labelling accondition The substance is 	on of the substance or mixture according to Regulation (EC) No 1272/2008 102 flame H228 Flammable solid. H261 In contact with water releases flammable gases. ents rding to Regulation (EC) No 1272/2008 is classified and labelled according to the CLP regulation.	
	 2.1 Classification Classification a Classification a GHSU Flam. Sol. 1 Water-react. 2 2.2 Label element Labelling according Labelling according Hazard pictogra GHS02 Signal word Date Hazard statement H228 Flammab 	on of the substance or mixture according to Regulation (EC) No 1272/2008 202 flame H228 Flammable solid. H261 In contact with water releases flammable gases. ents rding to Regulation (EC) No 1272/2008 is classified and labelled according to the CLP regulation. ams anger ents ble solid. et with water releases flammable gases. statements If medical advice is needed, have product container or label at hand	1.
	 2.1 Classification a Classification a Classification a GHS0 Flam. Sol. 1 Water-react. 2 2.2 Label elemente Labelling account Hazard pictogra GHS02 Signal word Date Hazard statemente H228 Flammab H261 In contact Precautionary s P101 	on of the substance or mixture according to Regulation (EC) No 1272/2008 02 flame H228 Flammable solid. H261 In contact with water releases flammable gases. ents rding to Regulation (EC) No 1272/2008 is classified and labelled according to the CLP regulation. ams anger ents ble solid. et with water releases flammable gases. statements	1.

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P303+P361+P3.	53 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/
	shower.
P305+P351+P3.	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P422	Store contents under inert gas.
P501	Dispose of contents/container in accordance with local/regional/national/international

· 2.3 Other hazards

· Results of PBT and vPvB assessment

regulations.

• **PBT:** Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Chemical characterisation: Substances

· CAS No. Description

- 7439-91-0 lanthanum
- · Identification number(s)
- EC number: 231-099-0

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and 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: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- Sand. Do not use water.

CO2, sand, extinguishing powder. Do not use water.

Use fire extinguishing methods suitable to surrounding conditions.

- · For safety reasons unsuitable extinguishing agents: Water
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: No special measures required.

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- 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents
- 6.4 Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Open and handle receptacle with care.
- · Handling: Handle under inert gas.
- · Information about fire and explosion protection: Keep ignition sources away Do not smoke.
- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage: Store contents under inert gas.
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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Eye protection: Safety glasses	(Contd. of pag
9.1 Information on basic physical and c	chemical properties
General Information	I I I
Appearance:	
Form:	Solid
Colour:	Grey
Odour:	Odourless
Odour threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/freezing point:	920 °C
Initial boiling point and boiling range	2: 3.454 °C
Flash point:	Not applicable.
Flammability (solid, gas):	Flammable.
	Contact with water liberates extremely flammable gases.
Ignition temperature:	
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Not determined.
Explosive properties:	Not determined.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not applicable.
Density at 20 °C:	6.166 g/cm ³
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Insoluble.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Solvent content:	
Organic solvents:	0.0 %
VOC (EC)	0.00 %
Solids content:	100.0 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

• 10.3 Possibility of hazardous reactions Contact with water releases flammable gases.

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- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- *Respiratory or skin sensitisation Based on available data, the classification criteria are not met.*
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- *Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.*
- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

· 14.1 UN-Number	
· ADR, IMDG, IATA	UN3208
\cdot 14.2 UN proper shipping name	
$\cdot ADR$	3208 METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S.



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IMDG, IATA	METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S.
· 14.3 Transport hazard class(es)	
· ADR	
· Class	4
· Label	4.3
· IMDG, IATA	
· Class	4.3 Substances which, in contact with water, emit flammab gases.
· Label	4.3
· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards: · Marine pollutant:	No
 14.6 Special precautions for user EMS Number: Stowage Category Stowage Code Handling Code Segregation Code 	Not applicable. F-G,S-N E SW2 Clear of living quarters. H1 Keep as dry as reasonably practicable SG26 In addition: from goods of classes 2.1 and 3 whe stowed on deck of a containership a minimum distance of tw container spaces athwartship shall be maintained, whe stowed on ro-ro ships a distance of 6 m athwartship shall b maintained.
· 14.7 Transport in bulk according to Anne Marpol and the IBC Code	
· Transport/Additional information:	
· ADR · Limited quantities (LQ)	500 g
• Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	500 g Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
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· UN ''Model Regulation'':

UN 3208 METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S., 4.3, II

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I Substance is not listed.

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 40

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Technical Department.

· Contact: Technical Director

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Sol. 1: Flammable solids – Category 1
Water-react. 2: Substances and mixtures which in contact with water emit flammable gases – Category 2