# 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.	
	<ul> <li>1.3 Details of th</li> <li>Manufacturer/S</li> <li>Strem Chemical</li> <li>7 Mulliken Way</li> <li>NEWBURYPOH</li> <li>USA</li> <li>info@strem.com</li> </ul>	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.	
	<ul> <li>2.1 Classification</li> <li>Classification a</li> <li>Classification a</li> <li>GHS0</li> <li>Flam. Sol. 1</li> <li>Water-react. 2</li> <li>2.2 Label elemet</li> <li>Labelling according</li> </ul>	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.	
	<ul> <li>2.1 Classification</li> <li>Classification a</li> <li>Classification a</li> <li>GHS0</li> <li>Flam. Sol. 1</li> <li>Water-react. 2</li> <li>2.2 Label element</li> <li>Labelling accondition</li> <li>The substance is</li> </ul>	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.	
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	<ul> <li>2.1 Classification a</li> <li>Classification a</li> <li>Classification a</li> <li>GHS0</li> <li>Flam. Sol. 1</li> <li>Water-react. 2</li> <li>2.2 Label elemente</li> <li>Labelling account</li> <li>Hazard pictogra</li> <li>GHS02</li> <li>Signal word Date</li> <li>Hazard statemente</li> <li>H228 Flammab</li> <li>H261 In contact</li> <li>Precautionary s</li> <li>P101</li> </ul>	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.

# HEMICALS, INC.

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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 <sup>3</sup>
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
<ul> <li>14.6 Special precautions for user</li> <li>EMS Number:</li> <li>Stowage Category</li> <li>Stowage Code</li> <li>Handling Code</li> <li>Segregation Code</li> </ul>	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