Ν		Page 1/7
NC.	Safety data sheet according to 1907/2006/EC, Article 31	
Printing date	e 21.07.2021	Revision: 21.07.2021
SECTI	ION 1: Identification of the substance/mixture and of the co	ompany/undertaking
· 1.1 Prod	duct identifier	
· Trade n	ame: <u>Lanthanum foil (99.9% REO)</u>	
• CAS Nu 7439-91 • EC num 231-099 • 1.2 Rel e	l-0 nber:	ıst
· Manufa Strem C 7 Mullik NEWBU USA	nils of the supplier of the safety data sheet acturer/Supplier: Themicals, Inc. Sen Way JRYPORT, MA 01950 rem.com	
· 1.4 Eme EMERG	information obtainable from: Technical Department e rgency telephone number: GENCY: CHEMTREC: + 1 (800) 424-9300 normal opening times: +1 (978) 499-1600	
SECTI	ION 2: Hazards identification	
· 2.1 Clas	ssification of the substance or mixture cation according to Regulation (EC) No 1272/2008 GHS02 flame	
Flam. So Water-ro	ol. 1 H228 Flammable solid. eact. 2 H261 In contact with water releases flammable gases.	
	el elements 1g according to Regulation (EC) No 1272/2008	

- Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.
- · Hazard pictograms



CHEMICALS

- · Signal word Danger
- Hazard statements
- H228 Flammable solid.
- H261 In contact with water releases flammable gases.
- · Precautionary statements
- *P101* If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.
- P231+P232 Handle under inert gas. Protect from moisture.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P222 Do not allow contact with air.

(Contd. on page 2)

Printing date 21.07.2021

Revision: 21.07.2021

Trade name: Lanthanum foil (99.9% REO)

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- *P501* Dispose of contents/container in accordance with local/regional/national/international regulations. • 2.3 Other hazards

· 2.3 Other nazaras

- · Results of PBT and vPvB assessment
- **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
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- · 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.
- 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.

(Contd. on page 3)



Printing date 21.07.2021

Revision: 21.07.2021

(Contd. of page 2)

Trade name: Lanthanum foil (99.9% REO)

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 No special precautions are necessary if used correctly.

· 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: 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.

· Eve protection: Safety glasses

• 9.1 Information on basic • General Information	physical and chemical properties	
· Appearance:		
Form:	Foil	
Colour:	Silver grey	
· Odour:	Odourless	
		(Contd. on page 4)

Printing date 21.07.2021

CHEMICALS, INC.

Revision: 21.07.2021

Trade name: Lanthanum j	foil (99.9% REO)
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	(Contd. of page
· Odour threshold:	Not determined.
· pH-value:	Not applicable.
• Change in condition Melting point/freezing point: Initial boiling point and boiling range	920 °C : 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: Upper:	Not determined. Not determined.
· Vapour pressure:	Not applicable.
 Density at 20 °C: Relative density Vapour density Evaporation rate 	6.166 g/cm ³ Not determined. Not applicable. Not applicable.
· Solubility in / Miscibility with water:	Insoluble.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.
· Solvent content: Organic solvents: VOC (EC)	0.0 % 0.00 %
Solids content: • 9.2 Other information	100.0 % 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.
- 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.

(Contd. on page 5)

GE

Printing date 21.07.2021

Revision: 21.07.2021

Trade name: Lanthanum foil (99.9% REO)

(Contd. of page 4)

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.
- \cdot 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.

SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA	UN3208	
· 14.2 UN proper shipping name · ADR · IMDG, IATA	3208 METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S. METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S.	
	(Contd. on page 6)	

GB -

Printing date 21.07.2021

CHEMICALS, INC.

Revision: 21.07.2021

rade name: Lanthanum foil (99.9% REO)		
	(Contd. of page 5)	
· 14.3 Transport hazard class(es)		
·ADR		
· Class	4	
· Label	4.3	
· IMDG, IATA		
· Class	4.3 Substances which, in contact with water, emit flammable 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 when stowed on deck of a containership a minimum distance of two container spaces athwartship shall be maintained, when stowed on ro-ro ships a distance of 6 m athwartship shall be maintained.	
· 14.7 Transport in bulk according to Anne.		
Marpol and the IBC Code	Not applicable.	
· Transport/Additional information:		
· ADR · 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	
· 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	
	(Contd. on page 7)	

Printing date 21.07.2021

CHEMICALS

Revision: 21.07.2021

Trade name: Lanthanum foil (99.9% REO)

(Contd. of page 6)

· 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