N		Page 1/6
NC.	Safety data sheet	
	according to 1907/2006/EC, Article	2 31
Printing date 21.07.	2021	Revision: 21.07.2021
SECTION 1.	Identification of the substance/mixture and of	f the company/undertaking
· 1.1 Product ide	ntifier	
· Trade name: E	rbium(III) carbonate hydrate (99.9%-Er) (REO)	
· Item number: 9	3-6822	
· CAS Number:	5 0022	
22992-83-2		
· EC number:		
228-003-4		
	e ntified uses of the substance or mixture and uses advise Pant information available.	ed against
· 1.3 Details of th	e supplier of the safety data sheet	
· Manufacturer/		
Strem Chemica	,	
7 Mulliken Way		
NEWBURYPOI USA	1, MA 01950	
info@strem.com	1	
U		
	ation obtainable from: Technical Department telephone number:	
	CHEMTREC: + 1 (800) 424-9300	
	opening times: $+1$ (978) 499-1600	
SECTION 2	Hazando identification	
SECTION 2.	Hazards identification	
· 2.1 Classification	on of the substance or mixture	
	ccording to Regulation (EC) No 1272/2008	
The substance i	s not classified according to the CLP regulation.	
· 2.2 Label eleme	nts	
	ding to Regulation (EC) No 1272/2008 Void	
· Hazard pictogr		
· Signal word Vo		
• Hazard stateme		
• Precautionary		
P262	Do not get in eyes, on skin, or on clothing.	ation/face protection
P280 P305+P351+P	Wear protective gloves/protective clothing/eye protect 338 IF IN EYES: Rinse cautiously with water for seve	
1 303+1 331+1	present and easy to do. Continue rinsing.	in minutes. Remove contact tenses, if
P304+P340	IF INHALED: Remove person to fresh air and keep c	comfortable for breathing.
P403+P233	Store in a well-ventilated place. Keep container tight	
P501	Dispose of contents/container in accordance with regulations.	
. 2 3 Other haza		

· 2.3 Other hazards

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CHEMICALS, IN

• 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

22992-83-2 Erbium(III) carbonate hydrate (99.9%-Er) (REO)

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• Identification number(s)

• EC number: 228-003-4

SECTION 4: First aid measures

• 4.1 Description of first aid measures

- · General information: No special measures required.
- 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: Use fire extinguishing methods suitable to surrounding conditions.
- 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 Not required.
- · 6.2 Environmental precautions: No special measures required.
- \cdot 6.3 Methods and material for containment and cleaning up:
- Dispose contaminated material as waste according to item 13.
- · 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 No special measures required.
- Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- 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: None.
- 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.

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	quire monitoring at the workplace: Not required. Id during the making were used as basis.
8.2 Exposure controls Personal protective equipment: General protective and hygienic mea The usual precautionary measures ar Respiratory protection: Not required. Protection of hands:	e to be adhered to when handling chemicals.
Protective gloves	
Due to missing tests no recommendation chemical mixture.	eable and resistant to the product/ the substance/ the preparation. tion to the glove material can be given for the product/ the preparation/ th
Material of gloves The selection of the suitable gloves devaries from manufacturer to manufac Penetration time of glove material The exact break through time has to observed.	nsideration of the penetration times, rates of diffusion and the degradation oes not only depend on the material, but also on further marks of quality an cturer. o be found out by the manufacturer of the protective gloves and has to b
Eye protection: Safety glasses	
9.1 Information on basic physical an	nd chemical properties
9.1 Information on basic physical an General Information	nd chemical properties
	ad chemical properties Powder
9.1 Information on basic physical an General Information Appearance: Form: Colour:	Powder Pink
9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour:	Powder Pink Odourless
9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold:	Powder Pink Odourless Not determined.
9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value:	Powder Pink Odourless
9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition	Powder Pink Odourless Not determined. Not applicable.
9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point:	Powder Pink Odourless Not determined. Not applicable. Undetermined.
9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling rat	Powder Pink Odourless Not determined. Not applicable. Undetermined. nge: Undetermined.
9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling rat Flash point:	Powder Pink Odourless Not determined. Not applicable. Undetermined.
9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling rat Flash point: Flammability (solid, gas):	Powder Pink Odourless Not determined. Not applicable. Undetermined. nge: Undetermined. Not applicable.
9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling rat Flash point: Flammability (solid, gas): Ignition temperature:	Powder Pink Odourless Not determined. Not applicable. Undetermined. nge: Undetermined. Not applicable.
9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling rat Flash point: Flammability (solid, gas): Ignition temperature: Decomposition temperature:	Powder Pink Odourless Not determined. Not applicable. Undetermined. nge: Undetermined. Not applicable. Product is not flammable.
9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling rat Flash point: Flammability (solid, gas): Ignition temperature:	Powder Pink Odourless Not determined. Not applicable. Undetermined. nge: Undetermined. Not applicable. Product is not flammable. Not determined.
9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling rat Flash point: Flammability (solid, gas): Ignition temperature: Decomposition temperature: Auto-ignition temperature: Explosive properties:	Powder Pink Odourless Not determined. Not applicable. Indetermined. nge: Undetermined. Not applicable. Product is not flammable. Not determined. Not determined. Not determined. Not determined.
9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling rat Flash point: Flammability (solid, gas): Ignition temperature: Decomposition temperature: Auto-ignition temperature:	Powder Pink Odourless Not determined. Not applicable. Indetermined. nge: Undetermined. Not applicable. Product is not flammable. Not determined. Not determined. Not determined. Not determined.
9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling rat Flash point: Flammability (solid, gas): Ignition temperature: Decomposition temperature: Auto-ignition temperature: Explosive properties: Explosion limits:	Powder Pink Odourless Not determined. Not applicable. undetermined. Not applicable. Product is not flammable. Not determined. Not determined. Product is not flammable. Product does not present an explosion hazard.
9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling rat Flash point: Flammability (solid, gas): Ignition temperature: Decomposition temperature: Auto-ignition temperature: Explosive properties: Explosion limits: Lower:	Powder Pink Odourless Not determined. Not applicable. Undetermined. nge: Undetermined. Not applicable. Product is not flammable. Not determined. Not determined. Not determined. Not determined. Not determined.
9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling ran Flash point: Flammability (solid, gas): Ignition temperature: Decomposition temperature: Auto-ignition temperature: Explosive properties: Explosion limits: Lower: Upper:	Powder Pink Odourless Not determined. Not applicable. Undetermined. Mot applicable. Product is not flammable. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined.

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· 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 No dangerous reactions known.
- 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.

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· 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.
- \cdot 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation Disposal must be made according to official regulations.
- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number		
ADR, ADN, IMDG, IATA	not regulated	
14.2 UN proper shipping name		
ADR, ADN, IMDG, IATA	not regulated	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA		
Class	not regulated	
14.4 Packing group		
ADR, IMDG, IATA	not regulated	
14.5 Environmental hazards:		
Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
14.7 Transport in bulk according to Ann	ex II of	
Marpol and the IBC Code	Not applicable.	
UN ''Model Regulation'':	not regulated	

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.
- 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.

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Trade name: Erbium(III) carbonate hydrate (99.9%-Er) (REO)

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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	
ATA: 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	
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