Safety data sheet

	according to 1907/2006/EC, Article 3	
nting date 20.07.	7.2021	Revision: 20.07.20
SECTION 1.	: Identification of the substance/mixture and of a	the company/undertaking
• 1.1 Product ide	entifier	
• Trade name: <u>G</u>	Germanium(IV) selenide (99.999%-Ge) PURATREM	
• Item number: 9	93-3224	
· CAS Number:		
12065-11-1		
• EC number:		
235-063-5		
	lentified uses of the substance or mixture and uses advised	against
No jurther relev	vant information available.	
v	he supplier of the safety data sheet	
· Manufacturer/		
Strem Chemica		
7 Mulliken Way		
NEWBURYPOI	RT, MA 01950	
USA info@stram.cov	<i>na</i>	
info@strem.com • Further inform • 1.4 Emergency	nation obtainable from: Technical Department • telephone number:	
info@strem.com • Further inform • 1.4 Emergency EMERGENCY:	nation obtainable from: Technical Department	
info@strem.com • Further inform • 1.4 Emergency EMERGENCY: During normal	nation obtainable from: <i>Technical Department</i> • telephone number: • CHEMTREC: + 1 (800) 424-9300	
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info@strem.com • Further inform • 1.4 Emergency EMERGENCY: During normal • 2.1 Classification • Classification a The substance i • 2.2 Label elema • Labelling accom • Hazard pictogr • Signal word Vo • Hazard stateme • Precautionary s P262 P280 P305+P351+P	nation obtainable from: Technical Department telephone number: : CHEMTREC: + 1 (800) 424-9300 : opening times: +1 (978) 499-1600 : Hazards identification : Hazards identification is not fthe substance or mixture according to Regulation (EC) No 1272/2008 is not classified according to the CLP regulation. ents rding to Regulation (EC) No 1272/2008 Void rams Void oid ents Void statements Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protective 2338 IF IN EYES: Rinse cautiously with water for sever present and easy to do. Continue rinsing.	al minutes. Remove contact lenses,
info@strem.com • Further inform • 1.4 Emergency EMERGENCY: During normal • 2.1 Classification • Classification a The substance i • 2.2 Label eleme • Labelling accom • Hazard pictogr • Signal word Vo • Hazard stateme • Precautionary = P262 P280 P305+P351+P P304+P340	nation obtainable from: Technical Department telephone number: CHEMTREC: + 1 (800) 424-9300 opening times: +1 (978) 499-1600 CHEATER identification ion of the substance or mixture according to Regulation (EC) No 1272/2008 is not classified according to the CLP regulation. ents rding to Regulation (EC) No 1272/2008 Void rams Void oid ents Void statements Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protecti P338 IF IN EYES: Rinse cautiously with water for sever present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep co.	al minutes. Remove contact lenses, mfortable for breathing.
info@strem.com • Further inform • 1.4 Emergency EMERGENCY: During normal • 2.1 Classification • Classification a The substance i • 2.2 Label elema • Labelling accom • Hazard pictogr • Signal word Vo • Hazard stateme • Precautionary s P262 P280 P305+P351+P	nation obtainable from: Technical Department telephone number: CHEMTREC: + 1 (800) 424-9300 opening times: +1 (978) 499-1600 CHEATER identification CHEATER identification THE Statements refing to Regulation (EC) No 1272/2008 is not classified according to the CLP regulation. ents refing to Regulation (EC) No 1272/2008 Void rams Void oid ents Void statements Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protective 2338 IF IN EYES: Rinse cautiously with water for sever present and easy to do. Continue rinsing.	al minutes. Remove contact lenses, mfortable for breathing. closed.

- · Results of PBT and vPvB assessment
- *PBT:* Not applicable.

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· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description

12065-11-1 Germanium(IV) selenide (99.999%-Ge) PURATREM

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· Identification number(s)

• EC number: 235-063-5

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.
- · 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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0.1.0	(Contd. of page 2
	nuire 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 are Respiratory protection: Not required. Protection of hands: 	e to be adhered to when handling chemicals.
Protective gloves	
	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 do varies from manufacturer to manufact Penetration time of glove material	nsideration of the penetration times, rates of diffusion and the degradation ones not only depend on the material, but also on further marks of quality an turer. To be found out by the manufacturer of the protective gloves and has to b
. 9 1 Information on basic physical an	id chemical properties
 9.1 Information on basic physical an General Information 	d chemical properties
• General Information • Appearance:	
• General Information • Appearance: Form:	Crystalline
 General Information Appearance: Form: Colour: 	Crystalline Orange
• General Information • Appearance: Form:	Crystalline
 General Information Appearance: Form: Colour: Odour: 	Crystalline Orange Odourless
 General Information Appearance: Form: Colour: Odour: Odour threshold: 	Crystalline Orange Odourless Not determined.
 General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: 	Crystalline Orange Odourless Not determined. Not applicable. 707 °C
 General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling ran 	Crystalline Orange Odourless Not determined. Not applicable. 707 °C nge: Undetermined.
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 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: Flash point: Flammability (solid, gas): Ignition temperature: 	Crystalline Orange Odourless Not determined. Not applicable. 707 °C nge: Undetermined. Not applicable. Product is not flammable. Not determined.
 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: 	Crystalline Orange Odourless Not determined. Not applicable. 707 °C nge: Undetermined. Not applicable. Product is not flammable. Not determined. Not determined.
 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: 	Crystalline Orange Odourless Not determined. Not applicable. 707 °C nge: Undetermined. Not applicable. Product is not flammable. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined.
 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: 	Crystalline Orange Odourless Not determined. Not applicable. 707 °C nge: Undetermined. Not applicable. Product is not flammable. Not determined. Not determined. Product does not present an explosion hazard.
 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: 	Crystalline Orange Odourless Not determined. Not applicable. 707 °C nge: Undetermined. Not applicable. Product is not flammable. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined.
 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: 	Crystalline Orange Odourless Not determined. Not applicable. 707 °C nge: Undetermined. Not applicable. Product is not flammable. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined.

INC.

Safety data sheet according to 1907/2006/EC, Article 31

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Trade name: Germanium(IV) selenide (99.999%-Ge) PURATREM

		(Contd. of page
· 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.
- \cdot 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.
- \cdot **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.
- 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.

not regulated
not regulated
not regulated
not regulated
No
Not applicable.
l of
Not applicable.

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: Germanium(IV) selenide (99.999%-Ge) PURATREM

(Contd. of page 5) • 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