CHEMICALS, INC.

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier • Trade name: Lead sulfide StremDots™ quantum dot (PbS core8nm), 10 mg/mL in toluene, 1600nm peak cmission • Hen number: %2-1000 • SAS Number: 1314-87-0 • Cumbor: 215-246-5 • Index number: 215-246-5 • I.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier: Strem Chemicals, Inc. 7 Mulliken Way New BURYPORT: MA 01950 USA Info@strem.com • Further information obtainable from: Technical Department • 1.4 Imergenzy telephone number: 215.246C: • Maingocturer/Supplier: Strem Chemicals, Inc. 7 Mulliken Way New BURYPORT: MA 01950 USA info@strem.com • Further information obtainable from: Technical Department • 1.4 Emergenzy telephone number: 21C Classification according to Regulation (EC) No 1272/2008 Image: Strem Chemistry GHS02 flame Flam. Liq. 1 H224 Extremely flammable liquid and vapo	Printing date 19.07.2021		Revision: 19.07.2021
• Trade name: Lead sulfide StremDots TM quantum dot (PbS core - $-8nm$), 10 mg/mL in toluene, 1600nm peak emission • Item number: 82-1090 • CAS Number: 1314-87-0 • EC number: 1325-246-6 • EC number: 132-82-001-00-6 • EC number: 132-82-001-00-6 • EC number: 132-82-001-00-6 • I.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. • 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplies * Srem Chemicals, Inc. 7 Mulliken Way NEWBURYPORT, MA 01950 USA info [®] strem.com • Further information obtainable from: Technical Department • I demargency telephone number: EMERGENCY: CHEMTREC: + 1 (800) 424-9300 During normal opening times: + 1 (978) 499-1600 SECTION 2: Hacards identification • 1.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 © © GHS02 flame Flam, Liq, 1 H224 Extremely flammable liquid and vapour. © © GHS08 health hazard Rep: IA H360Df May damage the unborn child. Suspected of damaging fertility. STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. © © GHS09 environment Aquatic Acute 1 H400 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic	SECTION 1: Identific	ation of the substance/mixture a	nd of the company/undertaking
emission• Item number: 21.090 • CAS Number: $314.87.0$ • BC number: $315.246.6$ • Index number: $322.001.00.6$ • J Z Relevant identified uses of the substance or mixture and uses advised againstNo further relevant identified uses of the substance or mixture and uses advised againstNo further relevant identified uses of the safety data sheet• Maufacturer/Supplier• Maufacturer/Supplier• Strem Chemicals. Inc.7 Multiken WayNEWBURYPORT, MA 01950USAinfo@strem.com• Further information obtainable from: Technical Department• J AB mergency telephone number:EMERGENCY: CHEMTREC: + 1 (800) 424-9300During normal opening times: +1 (978) 499-1600SECTION 2: Hazards identification• 2.1 Classification of the substance or mixture• Classification according to Regulation (EC) No 1272/2008 \widetilde{vvv} GHS08 health hazardRep: IA H360Df May damage the unborn child. Suspected of damaging fertility.STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. \widetilde{vvv} GHS09 environmentAquatic Chronic 1 H410 Very toxic to aquatic life.Aquatic Tox. 4 H32 Harmful if swallowed.Acute Tox. 4 H32 Harmful if swallowed.Acute Tox. 4 H3	· 1.1 Product identifier		
$ \begin{array}{l} \text{Iem number: } \$2.1090 \\ \text{CdS Number:} \\ 1314.87-0 \\ \text{EC number:} \\ 215.246-6 \\ \text{Index number:} \\ 1.3 Details of the supplier of the substance or mixture and uses advised against No further relevant information available. \\ \text{I.3 Details of the supplier of the safety data sheet} \\ \text{Manufacturer/Supplier:} \\ \text{Strem Chemicals, Inc:} \\ 7 Multiken Way \\ \text{NEWBURYPORT, MA 01950} \\ \text{USA} \\ \text{info@strem.com} \\ \text{Parther information obtainable from: Technical Department} \\ \text{I.4 Emergency telephone number:} \\ \text{EMERGENCY: CHEMTREC: + 1 (900) 424-9300} \\ \text{During normal opening times: + 1 (978) 499-1600} \\ \\ \hline \text{SECTION 2: Hazards identification} \\ \text{e.1.1 Classification of the substance or mixture} \\ \text{Classification according to Regulation (EC) No 1272/2008} \\ \hline \hline \hline \end{tabular} \\ \hline \text{Flam. Liq. 1 H224 Extremely flammable liquid and vapour.} \\ \hline \hline \end{tabular} \\ \hline \text{Rep: 1A H360Df May damage the unborn child. Suspected of damaging fertility. \\ \text{STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.} \\ \hline \hline \end{tabular} \\ \hline \text{Aquatic Chronic 1 H410 Very toxic to aquatic life.} \\ \text{Aquatic Chronic 1 H410 Very toxic to aquatic life. \\ \text{Aquatic Chronic 1 H410 Very toxic to aquatic life.} \\ \text{Aquatic Tox. 4 H32 Harmful if svallowed.} \\ \text{Acute Tox. 4 H32 Harmful if svallowed.} \\ \text{Acute Tox. 4 H32 Harmful if inhaled.} \\ \hline \end{aligned}$		StremDots TM quantum dot (PbS core	~~8nm), 10 mg/mL in toluene, 1600nm peak
 Manufacturer/Supplier: Strem Chemicals, Inc. 7 Multiken Way NEWBURYPORT, MA 01950 USA info@strem.com Further information obtainable from: Technical Department 1.4 Emergency telephone number: EMERGENCY: CHEMTREC: + 1 (800) 424-9300 During normal opening times: +1 (978) 499-1600 SECTION 2: Hazards identification 2.1 Classification of the substance or mixture Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Of SD2 flame Flam. Liq, 1 H224 Extremely flammable liquid and vapour. Of SOD flame Flam. Liq, 1 H224 Extremely flammable liquid and vapour. Of SD0 flame Flam. Liq, 1 H300 flay damage the unborn child. Suspected of damaging fertility. STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. Of SD9 environment Aquatic Acute 1 H400 Very toxic to aquatic life. Aquatic Acute 1 H400 Very toxic to aquatic life with long lasting effects. Of SD7 Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H332 Harmful if inhaled. 	• Item number: 82-1090 • CAS Number: 1314-87-0 • EC number: 215-246-6 • Index number: 082-001-00-6 • 1.2 Relevant identified uses		advised against
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	Acute Tox. 4 H332	Harmful if inhaled.	(Contd. on page 2)
			G

Revision: 19.07.2021



SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description
- 1314-87-0 lead sulphide
- · Identification number(s)
- EC number: 215-246-6
- · Index number: 082-001-00-6

(Contd. on page 3)



Printing date 19.07.2021

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Revision: 19.07.2021

Trade name: Lead sulfide StremDots[™] quantum dot (PbS core - ~8nm), 10 mg/mL in toluene, 1600nm peak emission

(Contd. of page 2)

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · General information:
- Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- · 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: Call for a doctor immediately.
- · 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:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- \cdot 6.2 Environmental precautions:
- Do not allow product to reach sewage system or any water course.

Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

 • 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

- · 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 Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

(Contd. on page 4)

⁻ GB

Printing date 19.07.2021

Revision: 19.07.2021

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(Contd. of page 3)

Prevent formation of aerosols.

- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Keep container tightly sealed. Do not seal receptacle gas tight. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.
- 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:
- Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately.
- Respiratory protection:
- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- · 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.

(Contd. on page 5)

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Printing date 19.07.2021

CHEMICALS, INC.

Revision: 19.07.2021

Eye protection:	(Contd. of pag
Tightly sealed goggles	
9.1 Information on basic physical and ch	hemical properties
General Information	
Appearance: Form:	Suspension
Colour:	Black
Odour:	Unpleasant
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	
Flash point:	4 °C
Flammability (solid, gas):	Not determined.
Ignition temperature:	
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Not determined.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	1.2 Vol %
Upper:	7 Vol %
Vapour pressure at 20 °C:	21.8 hPa
Density at 20 °C:	$0.868 \ g/cm^3$
Relative density	Not determined.
Vapour density Evaporation rate	Not determined. Not determined.
-	
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not misciple of afficial to mix. Not determined.
Viscosity: Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	0.0 %
VOC (EC)	0.00 %
Solids content:	100.0 %
9.2 Other information	<i>No further relevant information available.</i>

(Contd. on page 6)

Printing date 19.07.2021

Revision: 19.07.2021

Trade name: Lead sulfide StremDots[™] quantum dot (PbS core - ~8nm), 10 mg/mL in toluene, 1600nm peak emission

(Contd. of page 5)

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
- Harmful if swallowed or if inhaled.
- · 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
- May damage the unborn child. Suspected of damaging fertility.
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

• 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.
- · Ecotoxical effects:
- *Remark:* Very toxic for fish
- · Additional ecological information:
- · General notes:
- Also poisonous for fish and plankton in water bodies.
- Very toxic for aquatic organisms
- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

(Contd. on page 7)



CHEMICALS, INC.

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

Printing date 19.07.2021

Revision: 19.07.2021

Trade name: Lead sulfide StremDots[™] quantum dot (PbS core - ~8nm), 10 mg/mL in toluene, 1600nm peak emission

(Contd. of page 6)

SECTION 13: Disposal considerations

 \cdot 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

 \cdot Uncleaned packaging:

• **Recommendation:** Disposal must be made according to official regulations.

14.1 UN-Number ADR, IMDG, IATA	UN1993	
14.2 UN proper shipping name ADR IMDG, IATA	1993 FLAMMABLE LIQUID, N.O.S. FLAMMABLE LIQUID, N.O.S.	
14.3 Transport hazard class(es)		
ADR, IMDG, IATA		
Class	3 Flammable liquids.	
Label	3	
14.4 Packing group ADR, IMDG, IATA	Ι	
14.5 Environmental hazards: Marine pollutant:	No	
14.6 Special precautions for user EMS Number: Stowage Category	Warning: Flammable liquids. F-E, <u>S-E</u> E	
14.7 Transport in bulk according to Anna Marpol and the IBC Code	ex II of Not applicable.	
Transport/Additional information:		
ADR Limited quantities (LQ) Excepted quantities (EQ)	0.5L Code: E3 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 300 ml	
IMDG Limited quantities (LQ) Excepted quantities (EQ)	0.5L Code: E3 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 300 ml	

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(Contd. of page 7)

· UN ''Model Regulation'':

UN 1993 FLAMMABLE LIQUID, N.O.S., 3, I

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.

· Seveso category

P5a FLAMMABLE LIQUIDS

E1 Hazardous to the Aquatic Environment

 \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 10 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements 50 t

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 63

• 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. Liq. 1: Flammable liquids - Category 1 Acute Tox. 4: Acute toxicity - Category 4 Repr. 1A: Reproductive toxicity - Category 1A STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

