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SECTION 1 :	: Identification of the substance/mixture and of the	company/undertaking
· 1.1 Product ide	ntifier	
· Trade name: C	admium bromide, anhydrous, 99%	
		ainst
 1.3 Details of th Manufacturer/S Strem Chemical 7 Mulliken Way NEWBURYPOK USA info@strem.com 	ls, Inc. , RT, MA 01950	
• 1.4 Emergency EMERGENCY:	telephone number: <i>telephone number:</i> <i>CHEMTREC:</i> + 1 (800) 424-9300 <i>opening times:</i> +1 (978) 499-1600	
SECTION 2	: Hazards identification	
• 2.1 Classification • Classification a	: Hazards identification on of the substance or mixture according to Regulation (EC) No 1272/2008 09 environment	
• 2.1 Classification • Classification a	on of the substance or mixture according to Regulation (EC) No 1272/2008 09 environment	
• 2.1 Classification • Classification a • Classification a • Classification a • Classification a • Classification a • Classification a	on of the substance or mixture according to Regulation (EC) No 1272/2008 09 environment H400 Very toxic to aquatic life.	
• 2.1 Classification • Classification a • Classification a • Classification a • Classification a • Classification a • Classification a	on of the substance or mixture according to Regulation (EC) No 1272/2008 09 environment H400 Very toxic to aquatic life. c 1 H410 Very toxic to aquatic life with long lasting effects.	
2.1 Classification a Classification a Classification a GHS0 Aquatic Acute 1 Aquatic Chronic	on of the substance or mixture according to Regulation (EC) No 1272/2008 09 environment H400 Very toxic to aquatic life. c 1 H410 Very toxic to aquatic life with long lasting effects.	
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2.1 Classification Classification a Classification a GHSC Aquatic Acute 1 Aquatic Chronic GHSC Acute Tox. 4	on of the substance or mixture according to Regulation (EC) No 1272/2008 09 environment H400 Very toxic to aquatic life. c 1 H410 Very toxic to aquatic life with long lasting effects. 07 H302 Harmful if swallowed.	
 2.1 Classification a Classification a GHSC Aquatic Acute 1 Aquatic Chronic GHSC Acute Tox. 4 	on of the substance or mixture according to Regulation (EC) No 1272/2008 09 environment 1 H400 Very toxic to aquatic life. 1 H410 Very toxic to aquatic life with long lasting effects. 1 H410 Very toxic to aquatic lif	
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 2.1 Classification a Classification a Classification a GHSC Aquatic Acute 1 Aquatic Chronic Aquatic Chronic GHSC Acute Tox. 4 Acut	on of the substance or mixture according to Regulation (EC) No 1272/2008 09 environment H400 Very toxic to aquatic life. c 1 H410 Very toxic to aquatic life with long lasting effects. c 1 H410 Very toxic to aquatic life with long lasting effects. H302 Harmful if swallowed. H312 Harmful in contact with skin. H332 Harmful if inhaled. ents rding to Regulation (EC) No 1272/2008 is classified and labelled according to the CLP regulation. ams	



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Trade name: Cadmium bromide, anhydrous, 99%

cadmium bromi	ining components of labelling:
Hazard stateme	
	I332 Harmful if swallowed, in contact with skin or if inhaled.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary s	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P102 P103	Read label before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	
P232	Avoid breathing dust/fume/gas/mist/vapours/spray.
	Protect from moisture.
P303+P331+P.	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
P403+P233	present and easy to do. Continue rinsing.
	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/internation
	regulations.
2.3 Other hazar	rds
Results of PBT	and vPvB assessment

SECTION 3: Composition/information on ingredients

- 3.1 Chemical characterisation: Substances
- CAS No. Description 7789-42-6 cadmium bromide
- · Identification number(s)
- Identification number(s) • EC number: 232-165-1
- Index number: 048-001-00-5

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.
- \cdot 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

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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: Mouth respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

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

• 6.3 Methods and material for containment and cleaning up:

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

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

- · 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: 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:

7789-42-6 cadmium bromide

WEL Long-term value: 0.025 mg/m³

as Cd, Carc

• Additional information: The lists valid during the making were used as basis.

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- 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. Avoid contact with the eyes and skin.
- · 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.

• Eye protection: Safety glasses

• 9.1 Information on basic physical and c	hemical properties
• General Information • Appearance:	
Form:	Powder
Colour:	White
· Odour:	Odourless
· Odour threshold:	Not determined.
· pH-value:	Not applicable.
· Change in condition	
Melting point/freezing point:	567 °C
Initial boiling point and boiling range	: 863 °C
· Flash point:	Not applicable.
· Flammability (solid, gas):	Not determined.
· Ignition temperature:	
Decomposition temperature:	Not determined.
• Auto-ignition temperature:	Not determined.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not applicable.
· Density at 20 •C:	5.192 g/cm ³
· Relative density	Not determined.
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		(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 %	
VÕC (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

Harmful if swallowed, in contact with skin or if inhaled.

· LD/LC50 values relevant for classification:

Oral LD50 322 mg/kg (rat)

· 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.
- $\cdot \textit{STOT-single exposure Based on available data, the classification criteria are not met.}$
- 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.

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- 12.2 Persistence and degradability No further relevant information available.
- \cdot 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
- \cdot 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.

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 informa	ntion
· 14.1 UN-Number · ADR, IMDG, IATA	UN2570
· 14.2 UN proper shipping name · ADR · IMDG · IATA	2570 CADMIUM COMPOUND CADMIUM COMPOUND, MARINE POLLUTANT CADMIUM COMPOUND
· 14.3 Transport hazard class(es)	
· ADR	
· Class · Label	6 6.1
· IMDG	
· Class	6.1 Toxic substances.
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Label	6.1
IATA	
6 6	
Class	6.1 Toxic substances.
Label	6.1
14.4 Packing group	
ADR, IMDĞ, IATA	111
14.5 Environmental hazards:	
Marine pollutant:	No
	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Not applicable.
Danger code (Kemler):	60
EMS Number:	F-A,S-A
Stowage Category	A
14.7 Transport in bulk according to Ann Marpol and the IBC Code	nex II of Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5 kg
Excepted quantities $(\widetilde{E}Q)$	Code: E1
	Maximum net quantity per inner packaging: 30 g
T	Maximum net quantity per outer packaging: 1000 g
Transport category Tunnel restriction code	2 E
	L
	<i>с</i> ,
Limited quantities (LQ)	5 kg Code: E1
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 30 g Maximum net quantity per outer packaging: 1000 g
UN "Model Regulation":	UN 2570 CADMIUM COMPOUND, 6.1, III

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 E1 Hazardous to the Aquatic Environment

 \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t

 \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 23

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· 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 acronvms: 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 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



