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562-76-5 EC number: 200-236-0 1.2 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/Supplier: Strem Chemicals, Inc. 7 Mulliken Way NEWBURYPORT, MA 01950 USA info@stren.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 according to Regulation (EC) No 1272/2008 GHS06 skull and crossbones Acute Tox. 3 H331 Toxic if inhaled. Quartic Acute 1 H400 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. Quartic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.		entifier
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GHS06 GHS09		500
(Contd. on pag	GHS06 GH	307

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· Signal word D	(Contd. of page 1)
0	nining components of labelling:
	acyanoplatinate(II) hydrate
· Hazard statem	
H302 Harmful	
H331 Toxic if i	
v	ic to aquatic life with long lasting effects.
Precautionary	
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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P232	Protect from moisture.
P305+P351+P	2338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.
Additional info	prmation:
EUH032 Conte	act with acids liberates very toxic gas.
2.3 Other haza	urds
Results of PBT	and vPvB assessment
• PBT: Not appl	
vPvB: Not app	licable.

SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description
- 562-76-5 Potassium tetracyanoplatinate(II) hydrate
- · Identification number(s)
- EC number: 209-236-0

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.

Remove breathing equipment only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

• After inhalation:

Supply fresh air or oxygen; call for doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- 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.

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• **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: Mouth respiratory protective device.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. • 6.2 Environmental precautions:

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.

Open and handle receptacle with care.

· Information about fire - and explosion protection: Keep respiratory protective device available.

- · 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: Do not store together with acids.
- 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.

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	(Contd. of page 3
· 8.2 Exposure controls	
· Personal protective equipment:	
· General protective and hygienic measure	es:
Keep away from foodstuffs, beverages and	
Immediately remove all soiled and contam	
Wash hands before breaks and at the end	of work.
Store protective clothing separately.	
• Respiratory protection:	
	use respiratory filter device. In case of intensive or longer exposure us
self-contained respiratory protective devie Protection of hands:	ce.
Trotection of nanus.	
M2 Protocting player	
Protective gloves	
The glove material has to be impermeable	e and resistant to the product/ the substance/ the preparation.
	to the glove material can be given for the product/ the preparation/ th
chemical mixture.	
	eration of the penetration times, rates of diffusion and the degradation
Material of gloves	
	not only depend on the material, but also on further marks of quality an
varies from manufacturer to manufacture	r.
• Penetration time of glove material	found out by the manufactures of the protective cloves and has to b
observed.	found out by the manufacturer of the protective gloves and has to b
Eye protection: Safety glasses	
	1 · 1 /
• 9.1 Information on basic physical and ch	nemical properties
• General Information • Appearance:	
Form:	Powder
Colour:	Whitish
Odour:	Odourless
Odour threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	* *
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	
Flash point:	Not applicable.
Flammability (solid, gas):	Not determined.
	ivoi determinea.
Ignition temperature:	Not determined
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	Not determined
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not applicable.
Dansity	Not determined.
Density:	Not acterminea.

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		(Contd. of page
· Relative density	Not determined.	
· 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.
- 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.

Toxic 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 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.

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- · 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.

14.1 UN-Number	UN1588
ADR, IMDG, IATA	UNIS88
14.2 UN proper shipping name	
ADR	1588 CYANIDES, INORGANIC, SOLID, N.O.S.
IMDG, IATA	CYANIDES, INORGANIC, SOLID, N.O.S.
14.3 Transport hazard class(es)	
ADR	
S	
Class	6
Label	6.1
IMDG, IATA	
Class	6.1 Toxic substances.
Label	6.1
14.4 Packing group	
ADR, IMDĞ, IATA	III



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	(Contd. of page
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
EMS Number:	F-A,S-A
Segregation groups	Cyanides
Stowage Category	A
Segregation Code	SG35 Stow "separated from" acids.
14.7 Transport in bulk according to Anne	ex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5 kg
Excepted quantities (EQ)	Code: El
· · · · · · ·	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
IMDG	
Limited quantities (LQ)	5 kg
Excepted quantities (\widetilde{EQ})	Code: El
1 1 (2)	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
UN "Model Regulation":	UN 1588 CYANIDES, INORGANIC, SOLID, N.O.S., 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
- H2 ACUTE TOXIC
- E1 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- 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)

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PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 3 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



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