Rapid Electroplating Process, Inc SAFETY DATA SHEET





Conforms to: 29CFR 1900.1200 App D Complies with Canadian WHMIS MSDS Requirements Based on CCOHS:A Brief Summary of Canadian Requirements (Apr 2014) Conforms to Regulation (EC) No.453/2010/EU (REACH)

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Product Identification:	Silver Plating Materials: Silver Coatalyte #316 Silver Anode #536, 546, 556
Product Use:	Selective Electroplating
Manufacturer:	Rapid Electroplating Process, Inc. 2901 W. Soffel Ave. Melrose Park, IL 60160 USA
Telephone	00-1-708-344-2504 (9:00 A.M4:30 PM, CST/CDT, M-F)
Emergency telephone:	In U.SCHEMTREC 1-800-424-9300 (24 Hrs) Outside U.S 001-703-527-3887 (call collect)
Date of Issue (Version):	Jan 2018

CANADIAN SUPPLIER GEORGE M. FRASER, LTD. 1815 Ironstone Manor, Unit #11 PICKERING, ONTARIO L1W 3W9 TEL: (905) 420-6555 FAX: (905) 420-4333 24HR. EMERGENCY TEL: (613) 996-6666

2. HAZARDS IDENTIFICATION

Note

Solid metallic anodes are generally classified as "articles" and do not constitute a hazardous material in benign, solid form under the definitions of the OSHA Hazard Communication Standard (29 CFR 1910.1200) or DOT/IATA transportation rules. However, some hazardous elements can be formed as a part of their normal use in selective electroplating. Although not considered a normal end use of our anodes, hazardous conditions can also be created by machining/welding/etc. the anode creating dust/fume or other conditions. The following classification information and warnings are for the hazardous elements which may be released in conjunction with the associated RAPID coatalyte (electrolyte) during normal use in selective electroplating.

Unless noted, hazard information presented here is based on the properties of the full strength constituent chemicals with RAPID product concentrations > 1 wt% (>0.1 wt% if identified as carcinogenic). This product contains diluted forms of the chemicals which should be taken into account when evaluating the hazards of the product as a whole.

Hazard	Category	Hazard	Category
Acute Toxicity		Reproductive Hazard	-
Oral	3 (ATE Product LD50)	Germ Cell Mutagenicity	Unknown
Dermal	Unknown	Reproductive Toxicity	DUPONT reports that limited reproductive studies do not suggest effects from sodium cyanide. Some tests have shown the potential for developmental toxicity but only at exposure levels producing toxic effects in the adult animal.
Inhalation Dusts/Mists	Unknown	Lactation	Unknown
Skin Corrosion	2 (ph<11.5, in vitro test)	Target Organ Toxicity	
Serious Eye Damage/Irritation	1	Single Exposure	Eyes, skin, cardiovascular system, respiratory system, mucous membranes
Carcinogenicity	No Component Categorized by IARC, NTP	Chronic Exposure	Central nervous system, thyroid
Respiratory/Skin Sensitizations	Unknown	Aspiration Hazard	Unknown

Hazard Category	Signal Word	Precautionary Statements:	Hazard Symbol(s) (GHS):
1B (Skin Corrosion/Irritation)	Danger	Causes severe skin burns and eye damage	
3 (Acute Toxicity-Oral)	Danger	Toxic if swallowed	

Hazard Statement	lazard Statements (US-GHS):	
ID	Hazard Statement	
EUH031	Contact with acids liberates toxic gas	
EUH066	Repeated exposure may cause skin dryness or cracking	
EUH210	Safety data sheet available on request.	
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.	
H301	Toxic if swallowed	
H311	Toxic in contact with skin	
H314	Causes severe skin burns and eye damage	
H320	Causes eye irritation	
H331	Toxic if inhaled	

Jan 2018 (Supersedes Previous Editions) (US-Can Version)

ID	Hazard Statement
H401	Toxic to aquatic life
Precautionary Stateme	nts (US-GHS):
ID	Precautionary Statement
P102	Keep out of reach of children
P103	Read label before use
P220	Keep/Store away from clothing/acids/foodstuffs/combustible materials
P233	Keep container tightly closed
P234	Keep only in original container
P235	Keep cool
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P262	Do not get in eyes, on skin, or on clothing
P264	Wash exposed skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+310	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
P309+311	IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician
P321	Specific treatment (see items on label and SDS)
P330	If swallowed, rinse mouth
P332+313	If skin irritation occurs: Get medical advice/attention
P337+313	If eye irritation persists get medical advice/attention
P362	Take off contaminated clothing and wash before reuse
P370	In case of fire use extinguishers suitable for surrounding fire (avoid CO2).
P403+233	Store in a well ventilated place. Keep container tightly closed
P405	Store locked up
P501	Dispose of contents/waste/container according to national/state/local regulations
Hazards Not Otherwise	Classified None known.
Ingredients with Unkno	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Anode (Silver Anode #536, 546, 556):

Chemical Name		Common Name	CAS-No	Concentration (Wt%)
Silver (Metal)		Anode	7440-22-4	>99.99
Dynel (acrylo), Woven		Sleeve_y1	Not Applicable (Dynel)	Not Applicable
Stainless Steel, 316		Stem	Not Applicable (SS316)	Not Applicable
	worker 316 Stainless	Stool has a vory high c	orrosion resistance in a varia	fume hazard to the
		uently, the backing/st	orrosion resistance in a varie em is not expected to evolve	ety of chemical

Coatalyte/Activator (Silver Coatalyte #316):

Chemical Name		Common Name	CAS-No	Concentration (Wt%)
Sodium Cyanide		Prussiate	143-33-9	< 5
Silver Cyanide		-	506-64-9	< 5
Potassium Carbonate, Anhydrous		Potash	584-08-7	< 5
Components not designated as hazardous or <1 wt% or carcinogen <0.1 wt%		Various	Various	> 85

Because of manufacturing variances and possible product improvements, the compositions and physical properties listed here should be considered representative. The values listed should not be construed as specifications.

4. FIRST AID MEASURES

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Description of First Aid Measures:	
	Move to fresh air; flush affected area with water (especially under eyelids if eyes affected); remove contaminated clothing; treat for shock as necessary. Never give anything by mouth to an unconscious person.
Following Inhalation:	Move to fresh air. If breathing stops, give artificial respiration/oxygen as appropriate. Call physician.
Following Eye contact:	Rinse with clear water, especially under eyelid. Consult Physician.
Following Skin contact:	Wash affected area with soap and water. Consult physician if irritation occurs.

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Following Ingestion:	Call a poison control center (PCC)/physician/emergency responders immediately and follow instructions.
	If victim is conscious: Rinse mouth. If directed, administer water or milk and/or oxygen if symptoms develop.
	Do not administer emetic or induce vomiting. Never give anything by mouth to an unconscious person.
	If victim has stopped breathing: Call a poison control center (PCC)/physician/emergency responders immediately and follow instructions.
	As a part of safety planning, consult physician regarding use of oxygen/amyl nitrate especially if heart conditions exist in workers.
Most Important Symptoms and Effects	
Acute:	Irritant to skin, eyes and other mucous membranes. TLV 'skin' notation indicates that cyanide may penetrate the skin, especially if broken.
Delayed:	DUPONT suggests that small exposures to cyanide continuing over a long period have caused decreased thyroid activity and kidney changes. Long-term administration to dogs have produced unspecified acute intoxication symptoms, increased numbers of red blood cells, decreased proteins and central nervous system changes. Literature indicates that body can metabolize small amounts of cyanide without chronic/long term residual effects. Silver compounds absorbed by the body may be reduced by the body depositing silverresults in darkening of
Indication of Immediate Medical Attention and Special Treatment Needed:	effected tissue over prolonged time/exposure (argyria). Cyanide Exposure: Weakness, dizziness, confusion, headache, vomiting, skin/mucous membrane irritation. In the extreme case, cyanosis, unconsciousness and death. Cyanide disrupts the oxidative mechanism; skin may have deceptively healthy pink to red color but with injury or lack of oxygen may be bluish. Prompt action is needed to prevent further injury or death.
Note to physicians:	DUPONT suggests that intravenous injections by a physician of sodium nitrite and sodium thiosulfate may be useful for severe cyanide exposure. Without symptoms, no treatment is suggesteddecontaminate and observe for at least 30 minutes (the biological half-life of cyanide in the body is about 20-90 minutes). An expansive discussion of cyanide first aid from the DUPONT MSDS is available on request. The Center for Disease Control also offers guidance for cyanide emergencies at http://www.bt.cdc.gov/agent/cyanide/. Note: Dupont suggests that to prepare activated charcoal slurry, mix thoroughly 50 g of activated charcoal in
	Note: Dupont suggests that to prepare activated charcoal slurry, mix thoroughly 50 g of activated charcoal i 400 ml (about 2 cups) water.

5. FIRE-FIGHTING MEASURES

Extinguishing Media:	As appropriate for surrounding fire.
for actaby reasons.	Avoid CO2 or acid-based extinguishers in confined area because they may react with spilled material to produce HCN.
Hazardous combustion products:	On extreme heating or mixing with acids: metal oxides, nitrous oxides, cyanates, and/or flammable HCN gas.
Special exposure hazards arising from the substance or mixture:	If material is free to mix with water, mixing may result in toxic water runoff
Conditions of Flammability:	Not flammable (aqueous solution). See Section 9: Physical and Chemical Properties.
Advice for fire-fighters:	Wear self-contained breathing apparatus.
Additional information:	Collect contaminated fire extinguishing water separately. Do not allow entering drains or suface water.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Control access to spill area. Ensure adequate ventilation and avoid direct contact with material.
	Comply with all national, regional and local regulations for ultimate disposal of cyanide/silver waste solution. Do not flush cyanide compounds into sewers that may contain an acid. Use toxic material disposal service or hypochlorite detoxification.
Methods for containment:	Use inert, absorbent material.
	Confine material in appropriately marked container. After pickup, clean affected area with mild hypochlorite (bleach, etc.)
Additional information:	Dispose of in accordance with local, regional and national regulations.

7. HANDLING AND STORAGE

Precautions for safe handling:	
Handling:	DO NOT TAKE INTERNALLY. USE IN WELL-VENTILATED AREA. DO NOT MIX WITH OTHER CHEMICALS. Keep container closed when not in use. Keep away from children. Silver Coatalyte #316 may give off some ammonia gas during use, and under unusual conditions, HCN.
Usage:	To reduce the possibility of injury by splatter or obstruction of ventilation/air movement, do not crowd workpiece with body or face. Avoid conditions that could allow workpiece to: bend/spring-back and "flick" solution; or drop into puddled solution and splash.
Storage:	Store/use in ventilated areas and avoid temperature extremes. Keep away from foodstuff, acids and other incompatible materials. Do not store near combustible/flammable materials (in the event of fire and container rupture, there is the potential for cyanide/silver solution runoff from fire-fighting water). As a strong poison, cyanides should be controlled and handled by responsible individuals. Keep away from children and foodstuff.
Specific end use(s):	Recommendations: Observe instructions for use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values:

Chemical Name A		ACGIH TWA	ACGIH STEL	OSHA PEL					
Cyanide Compounds No		Not Listed.	Listed. 5(Skin)C mg/m3 - as CN 5(Skin) mg/m3 - as CN						
Potassium Carbonate, Anhydrous N		Not Listed.	Listed. Not Listed. Not Listed.						
Silver (Metal)		0.1 mg/m3 - as Ag metal, Dust/Fume	ig/m3 - as Ag metal, Dust/Fume Unknown 0.01 mg/m3 - as /						
Silver Compounds, Soluble 0		0.01 mg/m3 - as Ag	mg/m3 - as Ag Not Listed. 0.01						
		0.01 mg/m3 - as Ag	5(Skin)C mg/m3 - as CN	0.01 mg/m3 - as Ag; PEL of 5(Skin) as CN als applies.					
Sodium Cyanide		Not Listed.	5(Skin)C mg/m3	5(Skin) mg/m3 - as CN					
Exposure controls:									
	the air as an a			h the solution as a whole is introduced in					
Engineering Cont		Local exhaust.	Local exhaust.						
Personal protectiv	ve equipment:	As appropriate for conditions of	As appropriate for conditions of use: Chemical aprons/suits, eye wash fountain, safety shower.						
Respiratory protection:			NIOSH approved dust/mist respirator.						
Respiratory prot		Chemical splash goggles/face shield. Avoid use of contact lenses.							
Respiratory prot Eye protection		Chemical splash goggles/face	shield. Avoid use of contact lens	es.					
	:	Chemical splash goggles/face Gloves, rubber, e.g., butyl or n		<u>es.</u>					
Eye protection	:		eoprene.	es.					
Eye protection Hand protection		Gloves, rubber, e.g., butyl or n As appropriate for conditions of	eoprene.						

9. PHYSICAL AND CHEMICAL PROPERTIES

Anode (Silver Anode #536, 546, 556):			
Physical state:	Solid	Vapour pressure:	Not Applicable
Appearance	Metallic	Vapor density:	Not Applicable
Color:	Silver	Relative Density:	10.49
Odor:	No identifiable odor.	Solubility (in water):	Not Applicable
pH:	Not Applicable	Partition coefficient: n-octanol/water:	Not Applicable
Melting point / melting range:	961º C (1761º F)	Auto-ignition temperature:	Not Applicable
Boiling point / boiling range:	Not Applicable	Decomposition Temperature:	Not Applicable
Flash point:	Not Applicable	Viscosity:	Not Applicable
Evaporation rate:	Not Applicable	Oxidizing properties:	Not Applicable
Flammability (solid, gas):	Not Flammable	Explosion Data-Mechanical Impact:	Insensitive
Upper / Lower Flammability Limit Explosive Limits:	Not Applicable	Explosion Data-Static Discharge:	Insensitive
Coatalyte/Activator (Silver Coatalyte	#316):		
Physical state:	Liquid	Vapour pressure:	As Water
Appearance	Liquid	Vapor density:	As Water
Color:	Yellow	Relative Density:	1.07
Odor:	Slight ammonia odor.		Aqueous solutionsoluble in water.
pH:	11.3	Partition coefficient: n-octanol/water:	As Water
Melting point / melting range:	< 0º C (< 32º F)	Auto-ignition temperature:	Not Applicable (aqueous solution)
Boiling point / boiling range:	> 100º C (> 212º F)	Decomposition Temperature:	Not Applicable (aqueous solution)
Flash point:	Not Applicable (aqueous solution)	Viscosity:	As Water
Evaporation rate:	As Water	Oxidizing properties:	Not Applicable
Flammability (solid, gas):	Not Flammable	Explosion Data-Mechanical Impact:	Insensitive
Upper / Lower Flammability Limit Explosive Limits:	Not Applicable (aqueous solution)	Explosion Data-Static Discharge:	Insensitive

10. STABILITY AND REACTIVITY

Reactivity:	Reacts with acids to release HCN gas
Chemical Stability:	Stable
Possibility of Hazardous Reactions:	On extreme heating or mixing with acids: metal oxides, nitrous oxides, cyanates, and/or flammable HCN gas.
Conditions to avoid:	High heat. Mixing with incompatible materials.
Incompatible Materials:	Acids, acid salts, and weak alkalies. Strong oxidizers (e.g. nitrates and chlorites) may react exothermally.
Hazardous decomposition products:	On extreme heating or mixing with acids: metal oxides, nitrous oxides, cyanates, and/or flammable HCN gas.
	RAPID Silver Anodes are generally inert until used in the plating process with RAPID Silver Coatalyte #316. During the plating process, the anode slowly dissolves and contributes silver ions to the coatalyte replenishing the silver plated onto the workpiece.

11. TOXICOLOGICAL INFORMATION

Toxic Levels:

Source	Chemical Name	LD50 (mg/kg)	LC50 (mg/M3)	IARC Listed	NTP Listed	OSHA Listed	ACGIH Carcinogenicity Listed
Anode	Silver (Metal)	Not Available	Not Available	No	No	No	No
Anode	Silver Compounds, Soluble	Various	Various	No	No	No	No
Coat316	Cyanide Compounds	7 -11 OR - as Sodium Cyanide	15 R (4hr) (4 Hr)	No	No	No	No
Coat316	Potassium Carbonate, Anhydrous	1870 OR	Not Available	No	No	No	No
Coat316	Silver Compounds, Soluble	Various	Various	No	No	No	No
Coat316	Silver Cyanide	123 OR	Not Available	No	No	No	No
Coat316	Sodium Cyanide	7 -11 OR -as Sodium Cyanide	15 R (4 Hr)	No	No	No	No

Note

When the anode is used for normal selective plating, the backing/stem and sleeve are expected to be inert and not generate hazardous chemical products themselves.

	chemical products themselves.					
EFFECTS OF ACUTE EXPOSURE						
Eye contact: Potential for eye irritation or chemical burns.						
Inhalation: Mist can cause respiratory irritation.						
Skin contact:	Can cause skin irritation or chemical burns. Note that Cyanide TWA has a "skin" notation.					
Ingestion:	Potentially toxic by ingestion.					
EFFECTS OF CHRONIC EXPOS	URE					
Target organs:	Eyes, skin, cardiovascular system, central nervous system, thyroid, blood, nasal septum, respiratory system					
Chronic Effects:	DUPONT suggests that small exposures to cyanide continuing over a long period have caused decreased thyroid activity and kidney changes. Long-term administration to dogs have produced unspecified acute intoxication symptoms, increased numbers of red blood cells, decreased proteins and central nervous system changes. Literature indicates that body can metabolize small amounts of cyanide without chronic/long term residual effects. Silver compounds absorbed by the body may be reduced by the body depositing silverresults in darkening of effected tissue over prolonged time/exposure (argyria).					
Carcinogenicity:	No component has been identified as a carcinogen.					
Mutagenicity:	Unknown					
Reproductive Effects:	DUPONT reports that limited reproductive studies do not suggest effects from sodium cyanide. Some tests have shown the potential for developmental toxicity but only at exposure levels producing toxic effects in the adult animal.					
Developmental Effects:						
Teratogenicity:	None known.					
Embryotoxicity:	DUPONT reports that limited reproductive studies do not suggest effects from sodium cyanide. Some tests have shown the potential for developmental toxicity but only at exposure levels producing toxic effects in the adult animal.					
Skin Sensitization:	None known.					
Respiratory Sensitization:	None known.					
Toxicologically Synergistic Ma	terials None known.					

12. ECOLOGICAL INFORMATION

Specific Toxicity:

Chemical Name	Effect dose/concentration	Test duration	Species	Result/Evaluation	Method	Remark			
Potassium Carbonate, Anhydrous	No information found	-	-	-	-	-			
Silver Cyanide	No Specifics: Toxic to all forms of life	-	-	-	-	-			
Sodium Cyanide	EC50 10 mg/l	48 Hrs	Water flea (Daphnia pulex)	EC50	Unknown	Information given is based on data obtained from similar substances			
Sodium Cyanide	EC50 0.05 mg/l	96 Hrs	Algae	EC50	Unknown	Information given is based on data obtained from similar substances			
Sodium Cyanide	LC50 ca. 0.025 mg/l	96 Hrs	Fish	LC50	Unknown	Information given is based on data obtained from similar substances			
Persistence and degrad	lability: C	yanide biodegrad	es.						
Bioaccumulative potent	tial: C	Cyanide biodegrades.							
Mobility in soil:		Cyanide is water soluble.							
Results of PBT and vPv	B Assessment: N	lone known.							
Other adverse effects:	N	lone known.							

13. DISPOSAL CONS	SIDERATIONS									
Waste treatment methods:		Comply with Do not flush hypochlorite	cyanide	e compo	ional and local unds into sewer	regulations for u s that may cont	Iltimate disposal of c ain an acid. Use to>	yanide/silver waste soluti ic material disposal servio		
14. TRANSPORT INF	ORMATION									
Anode (Silver Anode #536, 5	546, 556):]								
Information List		US DOT				IAT	۵			
UN Number		N/A					N/A			
Hazard Class		N/A					N/A			
Packing Group		N/A					A			
Proper Shipping Name		Not regulated	d by DO	TC		Not	Not regulated by IATA.			
Technical Name (if nee Labels						NI/A	N N			
Labels		N/A				N/A	1			
Marine Pollutant No	0									
Special Precautions No	one beyond thos	se above.								
Transport in Bulk No	ot Applicable									
Coatalyte/Activator (Silver C		····]								
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Information List		US DOT								
UN Number Hazard Class		UN 2922 8 (6 1)				-	2922			
Packing Group		8 (6.1) II				0 (6	6.1)			
Proper Shipping Name)	Corrosive Lig	quids, T	Foxic, n.a).S.	Co	rrosive Liquid, Toxic	, n.o.s.		
Technical Name (if ne		(Sodium & S					Sodium & Silver Cya			
Labels		Corrosive, Po	oison			Co	rrosive, Toxic			
Marine Pollutant No	 າ									
} /	one beyond thos	se above.								
· · · · · · · · · · · · · · · · · · ·	ot Applicable									
15. REGULATORY IN	FORMATION									
Spill Notifications:										
		Notify local S	Safety C	Coordinat	tors. If spill qua	ntity warrants, r	notify appropriate go	vernment officials.		
L	ontal regulations/los				,	ntity warrants, r	notify appropriate go	vernment officials.		
Safety, health and environm	ental regulations/leg				,	ntity warrants, r	notify appropriate go	vernment officials.		
·	ental regulations/leg				,	ntity warrants, r	notify appropriate go	vernment officials.		
Safety, health and environm	ental regulations/leg			bstance or Sectio	,	Section 304 EHS R		RCRA Code		
Safety, health and environm US Federal: Chemical Name	CAS	gislation specific fo	or the sul	Section (Ibs)	mixture	Section 304 EHS R (Ibs)	Q Section 313	RCRA Code		
Safety, health and environm		gislation specific fo	or the sul	bstance or Sectio	mixture	Section 304 EHS R				
Safety, health and environm US Federal: Chemical Name Cyanide Compounds	CAS N106 584-08-7 7440-22-4	CERCLA RQ (Ibs) CERCLA Class (No Not Listed 1,000	or the sul	Section (Ibs) Not Li Not Li Not Li	mixture on 302 EHS TPQ isted isted isted	Section 304 EHS R (Ibs) Not Listed	Q Section 313 313 Not Listed 313	RCRA Code Not Listed		
Safety, health and environm US Federal: Chemical Name Cyanide Compounds Potassium Carbonate Silver Silver Compounds	CAS N106 584-08-7 7440-22-4 N740	CERCLA RQ (Ibs) CERCLA Class (No Not Listed	or the sul	Sectio (Ibs) Not Li Not Li Not Li Not Li	mixture on 302 EHS TPQ isted isted isted isted	Section 304 EHS R (lbs) Not Listed Not Listed Not Listed Not Listed	Q Section 313 313 Not Listed 313 313	RCRA Code Not Listed Not Listed Not Listed Not Listed		
Safety, health and environm US Federal: Chemical Name Cyanide Compounds Potassium Carbonate Silver Silver Silver Compounds Silver cyanide	CAS N106 584-08-7 7440-22-4 N740 506-64-9	CERCLA RQ (Ibs) CERCLA Class (No Not Listed 1,000 CERCLA Class (No 1	or the sul	Section (Ibs) Not Li Not Li Not Li Not Li Not Li	mixture on 302 EHS TPQ isted isted isted isted isted	Section 304 EHS R (Ibs) Not Listed Not Listed Not Listed Not Listed Not Listed	Q Section 313 313 Not Listed 313 313 313 313c	RCRA Code Not Listed Not Listed Not Listed Not Listed P104		
Safety, health and environm US Federal: Chemical Name Cyanide Compounds Potassium Carbonate Silver Silver Compounds Silver cyanide Sodium cyanide (Na(CN)	CAS N106 584-08-7 7440-22-4 N740 506-64-9) 143-33-9	CERCLA RQ (lbs) CERCLA Class (No Not Listed 1,000 CERCLA Class (No 1 10	0 RQ)	bstance or (Ibs) Not Li Not Li Not Li Not Li Not Li 100	mixture for a steel stee	Section 304 EHS R (lbs) Not Listed Not Listed Not Listed Not Listed Not Listed 10	Q Section 313 313 Not Listed 313 313 313 313c 313c	RCRA Code Not Listed Not Listed Not Listed P104 P106		
Safety, health and environm US Federal: Chemical Name Cyanide Compounds Potassium Carbonate Silver Silver Silver Compounds Silver cyanide Sodium cyanide (Na(CN)	CAS N106 584-08-7 7440-22-4 N740 506-64-9 143-33-9	CERCLA RQ (Ibs) CERCLA Class (No Not Listed 1,000 CERCLA Class (No 1 10	PRQ)	Section (Ibs) Not Li Not Li Not Li Not Li 100	mixture for a set of the set of t	Section 304 EHS R (lbs) Not Listed Not Listed Not Listed Not Listed 10 III SARA, Section 31	Q Section 313 313 313 Not Listed 313 313 313 313 313 313c 313c 313c 313c 313c 313c 313c 313c	RCRA Code Not Listed Not Listed Not Listed P104 P106 kic chemical release reporting		
Safety, health and environm US Federal: Chemical Name Cyanide Compounds Potassium Carbonate Silver Silver Compounds Silver cyanide Sodium cyanide (Na(CN) FEDERAL: 'Superfund / Reauthorization Act (Se	CAS N106 584-08-7 7440-22-4 N740 506-64-9 143-33-9	CERCLA RQ (Ibs) CERCLA Class (No Not Listed 1,000 CERCLA Class (No 1 10 This product requirements	PRQ)	Section (Ibs) Not Li Not Li Not Li Not Li 100	mixture for a set of the set of t	Section 304 EHS R (lbs) Not Listed Not Listed Not Listed Not Listed 10 III SARA, Section 31	Q Section 313 313 Not Listed 313 313 313 313c 313c	RCRA Code Not Listed Not Listed Not Listed P104 P106 kic chemical release reporting		
Safety, health and environm US Federal: Chemical Name Cyanide Compounds Potassium Carbonate Silver Silver Silver Compounds Silver cyanide Sodium cyanide (Na(CN) FEDERAL: 'Superfund / Reauthorization Act (S/	CAS N106 584-08-7 7440-22-4 N740 506-64-9 143-33-9 Amendments and RA) of 1986':	CERCLA RQ (Ibs) CERCLA Class (No Not Listed 1,000 CERCLA Class (No 1 10 This product requirements	PRQ)	Section (Ibs) Not Li Not Li Not Li Not Li 100	mixture for a set of the set of t	Section 304 EHS R (lbs) Not Listed Not Listed Not Listed Not Listed 10 III SARA, Section 31	Q Section 313 313 313 Not Listed 313 313 313 313 313 313c 313c 313c 313c 313c 313c 313c 313c	RCRA Code Not Listed Not Listed Not Listed P104 P106 kic chemical release reporting		
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Safety, health and environm US Federal: Chemical Name Cyanide Compounds Potassium Carbonate Silver Silver cyanide Sodium cyanide (Na(CN)) FEDERAL: 'Superfund / Reauthorization Act (S/ Canada: Chemical Name Cyanide Compounds Potassium Carbonate Silver (Metal) Silver Compounds, Soluble Silver Compounds, Soluble Silver Cyanide Sodium Cyanide California: Chemical Name	CAS N106 584-08-7 7440-22-4 N740 506-64-9 1143-33-9 Amendments and RA) of 1986': CAS N106 584-08-7 7440-22-4 N740 506-64-9 143-33-9	CERCLA RQ (ibs) CERCLA RQ (ibs) CERCLA Class (No Not Listed 1,000 CERCLA Class (No 1 10 This product requirements WHMIS Note Discl; 1% Toxic,Corrosive; D2 1% Discl; 1% Toxic,Corrosiv DIA, E;1% CA Prop 65 Toxicity	PRQ) PRQ) PRQ) PRQ) PRQ) PRQ) PRQ) PRQ)	bstance or Sectio (Its) Not Li Not Class Corrosive l Corro	mixture on 302 EHS TPQ isted isted isted isted mical subject to Title mical subject to Title (pH calculated = 11. CA Hazardous Substance	Section 304 EHS R (Ibs) Not Listed Not Listed Not Listed Not Listed 10 III SARA, Section 31 III SARA, Section 31 I	Q Section 313 313 Not Listed 313 313 313c 313c 313c 315c 310 315c 3	RCRA Code Not Listed Not Listed Not Listed P104 P106 kic chemical release reporting		
Safety, health and environm US Federal: Chemical Name Cyanide Compounds Potassium Carbonate Silver Silver compounds Silver cyanide Sodium cyanide (Na(CN) FEDERAL: 'Superfund / Reauthorization Act (S# Canada: Chemical Name Cyanide Compounds Potassium Carbonate Silver (Metal) Silver Compounds, Soluble Silver Compounds, Soluble Sodium Cyanide California: Chemical Name Cyanide Compounds, Soluble	CAS N106 584-08-7 7440-22-4 N740 506-64-9 143-33-9 Amendments and RA) of 1986': CAS N106 584-08-7 7440-22-4 N740 506-64-9 143-33-9 CAS N106 584-08-7 7440-22-4 N740 506-64-9 143-33-9 CAS N106	CERCLA RQ (Ibs) CERCLA RQ (Ibs) CERCLA Class (No Not Listed 1,000 CERCLA Class (No 1 10 This product requirements Discl; 1% Toxic, Corrosive; D2 1% Discl; 1.0% Discl; 1.0% Discl; 1.0% Discl; 1,1% Toxic; D1A; 1% Very Toxic, Corrosiv D1A, E;1%	p RQ) p RQ) contains co	Section Section Section (Ibs) Not Li Tot Li Not	mixture on 302 EHS TPQ isted	Section 304 EHS R (Ibs) Not Listed Not Listed Not Listed Not Listed 10 III SARA, Section 31 III SARA, Section 31 CA Hazardous Not	Q Section 313 313 Not Listed 313 313 313c 313c 313c 315c 310 315c 3	RCRA Code Not Listed Not Listed Not Listed P104 P106 kic chemical release reporting		
Safety, health and environm US Federal: Chemical Name Cyanide Compounds Potassium Carbonate Silver Silver cyanide Sodium cyanide (Na(CN)) FEDERAL: 'Superfund / Reauthorization Act (S/ Canada: Chemical Name Cyanide Compounds Potassium Carbonate Silver (Metal) Silver Compounds, Soluble Silver Compounds, Soluble Silver Cyanide Sodium Cyanide California: Chemical Name	CAS N106 584-08-7 7440-22-4 N740 506-64-9) 143-33-9 Amendments and RA) of 1986': CAS N106 584-08-7 7440-22-4 N740 506-64-9 143-33-9	CERCLA RQ (ibs) CERCLA RQ (ibs) CERCLA Class (No Not Listed 1,000 CERCLA Class (No 1 10 This product requirements WHMIS Note Discl; 1% Toxic,Corrosive; D2 1% Discl; 1% Toxic,Corrosiv DIA, E;1% CA Prop 65 Toxicity	PRQ) PRQ) PRQ) PRQ) PRQ) PRQ) PRQ) PRQ)	batance or batance or batance or batance or logithered l	mixture on 302 EHS TPQ isted isted isted isted mical subject to Title mical subject to Title (pH calculated = 11. CA Hazardous Substance	Section 304 EHS R (lbs) Not Listed Not Listed Not Listed Not Listed 10 III SARA, Section 31 III SARA, Section 31 I	Q Section 313 313 Not Listed 313 313 313c 313c 313c 315c 310 315c 3	RCRA Code Not Listed Not Listed Not Listed P104 P106 kic chemical release reporting		

Chemical Nam	ne CAS	CA Prop 65 Toxicity	CA Acutely Hazardous TQ	CA Hazardous Substance	CA Hazardous Note
Silver (Metal)	7440-22-4	Not Listed	Not Listed	Listed	 3. An MSDS must be provided under the following circumstances: a) The metal is supplied as a fine powder. b) The metal is in welding or brazing rods. c) The metal may be melted with the generation of toxic fume. d) Under normal use toxic dust or fume is likely to be generated by any manufacturing process.
Silver Compou Soluble	nds, N740	Not Listed	Not Listed	Listed	 Silver compounds existing in stable emulsions or suspensions as in photographic film are exempt
Silver Cyanide	506-64-9	Not Listed	Not Listed	Not Listed	
Sodium Cyanic	le 143-33-9	Toxicity	Not Listed	Listed	
Enforcement	'Safe Drinking Water and T Act of 1986' (Proposition 65): developmen	tal/reproductive har		to the State of California to be toxic, and/or cause birth defects or other nicals may be present in the new/used product from trace amounts in the raw other materials.
6. OTHER IN	IFORMATION				
ey literature refe	rences and sources for data	a:			
enters for Dis	sease Control and Pre	vention, NIOSH F	Pocket Guide to	Chemical Haz	ards (05/18/2016)
udavari, Susa	an, Editor, The Merk Ir	ndex (01/01/1989)		
· U ·	Dangerous Properties				
					Nork Air Adopted by ACGIH) (03/01/2013)
ational Toxic	ology Program (USHH	IS/PHS), 14th Re	port on Carcino	ogens (11/03/20	016)
RC, Overall	Evaluations of Carcino	genicity to Huma	ans As evaluate	ed in IARC Mon	ographs Volumes 1-120 (05/17/2017)
	ist of Lists: Consolidat ne Clean Air Act, As A			the Emergency	Planning and Community Right-to-Know Act (EPCRA) and Section
	al Regulations 29, Lab				
ode of Feder	al Regulations 40, Pro	tection of the Env	vironment		
	al Regulations 49, Tra				
	e of Regulations 22 Di ductive Toxicity (12/29		inking Water ar	nd Toxic Enforce	ement Act of 1986", "Chemicals known to the State to Cause Cancel
oxicological l	ndex Service, CSST, (Classification acc	ording to WHN	IS 1988 (12/13	(2013)
	ndex Service, CSST, \			, ,	,
anadian Cen	tre for Occupational H	ealth and Safety,	Information El	ements Require	d on a WHMIS 2015 Safety Data Sheet (SDS) (02/11/2015)
TA, Dangero	ous Goods Regulations	s, 59th Edition (0 ⁻	1/01/2018)		
	cal Suppliers, MSDS's				
anadian cent	re for Occupational He	ealth and Safety,	First Aid for Ch	emical Exposu	res (01/09/2017)
ational Librar	y of Medicine, TOXNE	Т			
ational Capita	al Poison Center, First	Aid for Poisons	(12/31/2017)		
anadian Cen	tre for Occupational H	ealth and Safety,	The Safety Da	ta Sheet A G	uide to First Aid Recommendations (01/02/2018)
DS for Silver	Cyanide				
DS for Sodiu	m Cyanide				
DS for Sodiu	m Hydroxide				
DS forPotass	ium Carbonate				
sclaimer:	based upon information and his/her own use. Since the a use, the results to be obtained	data believed to be rel actual use by others is ed, or the safety and to information herein to b	iable. However, it is beyond our control, xicity of the product be construed absolu	the user's responsil no guarantees expre nor does Rapid Ele tely complete since a	ormation, recommendations and suggestions appearing herein concerning our product are bility to determine the safety, toxicity and suitability of the product described herein for sseed or implied are made by Rapid Electroplating Process, Inc. as to the effects of such ctroplating Process, Inc. assume any liability arising out of use by others of the product additional information may be necessary or desirable when particular or exceptional
	Versions of this MSDS in lar confirmed by the user agains				ated means (e.g., GOOGLE Translate $^{\text{TM}}$). Content of the non-English version should be
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