

SAFETY DATA SHEET

Page 1 of 6 SDS-E-CW100L

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision: 3.1

SDS Revision Date: 2/10/2018

1.1	T =	1	PRODUC												
1.1	Product Name:	CIRCUIT		M CONDU	JCTIVE	SIL	VEF	RINK	(P/N	I C	W10)0L)			
1.2	Chemical Name:	NA													
1.3	Synonyms:	CircuitWriter ¹	™; PN CW100L												
1.4	Trade Names:	CircuitWriter™ PART NOS:													
		Part No. CW100P Pen (4 grams); Part No. RadioShack™ 276-037 (4 grams); Part No. CW1 Part No. CW100L-4 (125 grams); Part No. CW100L-12 (375 grams) Part No. CW1													
		Part No. CW	/100L-4 (125 gra	ams); P	art No. CV	V100L-1	12 (37	5 gram	s)		Р	art No	o. CW	100L-3	2 (1000 g)
1.5	Product Uses & Restrictions:	Silver Condu													
1.6	Distributor's Name:	CAIG Labora													
1.7	Distributor's Address:		her Court, Powa	* .											
1.8	Emergency Phone:	CHEMTRE	EC: +1 (703)	<u>527-3887 /</u>	+1 (800) 424-	9300) (CCI	N2052	06)					
1.9	Business Phone / Fax:	+1 (800) 224	-4123												
			2. H	AZARDS	DENT	IFIC <i>E</i>	ATIC	N							
2.1	Hazard Identification:	This product	is classified as	a HAZARDO	US SUBS	STANCE	= but	NOT a	s DANG	SERC	ous (GOOD	S		
		according to	the classificatio	n criteria of NC	HSC: 108	38 (2004	4) and	ADG (Code (A	ustra	lia).				
		_	CAUSES EYE	_	MAY CAU	JSE AN	I ALL	ERGIC	SKIN R	EAC	TION	-			
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		plenty of wa	ater. P333+P3	13 – If skin	irritation of	or rash	OCCII	rs aet	medical	l adv	/ice/a	ttentio	n.		
		P305+P351+	-P338 – IF IN E	YES: Rinse ca	utiously wi	th wate	r for s	everal	minutes	. Re	move	conta	ct		
		lenses, if pre	esent and easy	to do. Contin	nue rinsing	g. P337	'+P31	$3 - If \epsilon$	eye irrita	ation	persi	sts: G	et		• /
			ce/attention. Page 2												/
			ated clothing a)1 - [Dispose	of con	tents	/cont	ainer	to		•
0.0	Oth an Manning		tment, storage a		cility (TSE)F).									
2.3	Other Warnings:	KEEP OUT (OF REACH OF	CHILDREN.											
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						PP.	·	ES-				PP			
								E3"	E3- I E	-5-					
CHEM	IICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%		STEL	TWA	STEL PE	ES- EAK	PEL	STEL	IDLH		OTHER
	• •	CAS No. 7440-22-4	VW350000	231-131-3	% 60-70	TLV 0.1	STEL NA		STEL PE		PEL NA	STEL NA	IDLH 10	DUST	OTHER
	• •	7440-22-4	VW350000	231-131-3	60-70	0.1	NA	TWA 0.01	NF N	VF	NA	NA	10		OTHER
SILVE	• •							TWA 0.01	NF N	EAK					OTHER
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SILVE	ER	7440-22-4	VW350000	231-131-3	60-70 15-40	0.1 NA	NA NA	0.01 NF I	NF NF	NF NF	NA NA	NA NA	10 NA		OTHER
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Page 2 of 6 SAFETY DATA SHEET SDS-E-CW100L Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 2/10/2018 4. FIRST AID MEASURES - cont'd 4.3 Symptoms of Overexposure: Nausea, intestinal discomfort, vomiting and/or diarrhea. Ingestion: Overexposure in eyes may cause redness, itching and watering. Eyes: Skin: Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. Frostbite like symptoms. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some 4.4 Acute Health Effects: Non-irritating when used as directed. Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea. 4.5 Chronic Health Effects: Non-irritating when used as directed. Overexposure may trigger asthma-like symptoms in some sensitive individuals. May also induce skin sensitization and respiratory hypersensitivity. Possible allergic dermatitis. 4.6 Target Organs: Eyes, Skin. 4.7 Medical Conditions **HEALTH** Pre-existing dermatitis, other skin conditions, and disorders of the Aggravated by Exposure: target organs (eyes, skin, and respiratory system). FLAMMABILITY 1 PHYSICAL HAZARDS 0 PROTECTIVE EQUIPMENT В **EYES** SKIN 5. FIREFIGHTING MEASURES 5.1 Fire & Explosion Hazards This product is not flammable. However, if involved in a fire, this product may decompose at high temperatures to form toxic gases (e.g., CO,CO_x). 5.2 Extinguishing Methods: Water, Foam, CO2, Dry Chemical, Halon (if permitted). Use water spray to cool unopened containers 5.3 Firefighting Procedures: Fight fires as for surrounding materials. As in any fire, wear MSHA/NIOSH approved self-contained breathing apparatus (pressure-demand) and full protective gear. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Avoid spraying water directly into storage containers because of danger of boil-over. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. 6. ACCIDENTAL RELEASE MEASURES Spills Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. Plastic or rubber gloves, respirator, eye protection and apron may be required for clean-up of large spills. Small Spills: Wear appropriate protective equipment including gloves and protective eyewear. Use a non-combustible material such as vermiculite or sand to soak up the product and place into a container for later disposal. Do not use water or a material such as "speedy dry" to soak up material. Sweep up material using non-sparking materials (e.g., plastic brooms, shovels, dustpans) and place into a plastic container or plastic liner within another container. Large Spills: Keep incompatible materials (e.g., organics such as oil) away from spill. Stay upwind and away from spill or release. Isolate immediate hazard area and keep unauthorized personnel out of area. Stop spill or release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant. 7. HANDLING & STORAGE INFORMATION 7.1 Work & Hygiene Practices: Do not eat, drink or smoke when handling this product. Contents under pressure. Handle as to avoid puncturing container(s). When used as intended, no additional protective equipment is necessary. Use chemical goggles if eye contact is possible. Wash unintentional residues with soap and warm water. 7.2 Storage & Handling: Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct sunlight. Avoid temperatures above 120 °F. Keep away from incompatible substances. Protect containers from physical damage. To avoid unintentional spraying keep cap in place when not in use. 7.3 Special Precautions: Clean all spills promptly. Spilled material may present a slipping hazard. 8. EXPOSURE CONTROLS & PERSONAL PROTECTION 8.1 Exposure Limits: **ACGIH** NOHSC OSHA OTHER ppm (ma/m³) CHEMICAL NAME(S) TLV STEL ES-TWA ES-STEL **ES-PEAK** STEL SILVER 0.1 NA 0.01 NF NA 8.2 Ventilation & Engineering Controls: General mechanical (e.g., fans) or natural ventilation is sufficient when this product is in use. Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station) 8.3 Respiratory Protection: No special respiratory protection is required under typical circumstances of use or handling. In instances where dusts of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian

CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or

Australia.



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Page 3 of 6 SDS-E-CW100L

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SDS Revision: 3.1

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	8 1	EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd
8.4	Eye Protection:	Avoid eye contact. Wear splash proof goggles or equivalent eye protection (ANSI Z87). Safety
		glasses need to be used when handling or using this product.
8.5	Hand Protection:	Impermeable gloves required. May cause skin irritation in some sensitive individuals. When handling wear rubber, nitrile or impervious plastic gloves.
8.6	Body Protection:	No apron required when handling small quantities. When handling large quantities (e.g., ≥ 5 lbs), eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product, wash any exposed areas thoroughly with soap and water.
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		9. PHYSICAL & CHEMICAL PROPERTIES
9.1	Appearance:	Thick silver colored paste
9.2	Odor:	Sweet odor
9.3	Odor Threshold:	NA NA
9.4	pH:	NA NA
9.5	Melting Point/Freezing Point:	NA NA
9.6	Initial Boiling Point/Boiling Range:	196-212 °C (388-413 °F)
9.7	Flashpoint:	100 °C (212 °F)
9.8	Upper/Lower Flammability	NA NA
9.9	Limits: Vapor Pressure:	0.10 mm Hg @ 20 °C
9.10	Vapor Density:	NA
9.11	Relative Density:	NA NA
9.12	Solubility:	Negligible
9.13	Partition Coefficient (log Pow):	NA
9.14	Autoignition Temperature:	NA NA
9.15	Decomposition Temperature:	NA NA
9.16	Viscosity:	NA NA
9.17	Other Information:	NVC 60-70%
	1	
		10. STABILITY & REACTIVITY
10.1	Stability:	Stable under normal conditions; unstable with heat or contamination.
10.2	Hazardous Decomposition	Oxides of carbon (CO, CO ₂).
10.3	Products: Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Open flames, sparks, high heat, incompatible substances and direct sunlight.
10.5	Incompatible Substances:	Avoid extreme heat and ignition sources. Store away from oxidizers.
	<u>'</u>	Trible Oxforms float and Ignition Codicoo. Store and Trible Oxforms float and Ignition Codicoo.
		11. TOXICOLOGICAL INFORMATION
11.1	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: YES
11.2	Toxicity Data:	This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is
11.0	A cuta Taviaitu	available for some of the components of the product and is not presented in this document.
11.3	Acute Toxicity:	Moderate irritation to eyes and skin near affected areas.
11.4	Chronic Toxicity: Suspected Carcinogen:	This material may aggravate any pre-existing skin condition (e.g., dermatitis).
11.6	Reproductive Toxicity:	NA This product is not reported to produce reproductive toxicity in humans.
11.0	Mutagenicity:	This product is not reported to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans.
	Embryotoxicity:	This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans.
	Teratogenicity:	This product is not reported to produce embryotoxic effects in humans. This product is not reported to cause teratogenic effects in humans.
	Reproductive Toxicity:	This product is not reported to cause teratogenic effects in humans. This product is not reported to cause reproductive effects in humans.
11.7	Irritancy of Product:	The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure.
11.8	Biological Exposure Indices:	NE
11.9	Physician Recommendations:	Treat symptomatically.
	1	
		12. ECOLOGICAL INFORMATION
12.1	Environmental Stability:	There is no specific data available for this product.
12.2	Effects on Plants & Animals:	There are no specific data available for this product.
12.3	Effects on Aquatic Life:	There are no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life.



15.8

Other Requirements:

SAFETY DATA SHEET

Page 4 of 6 SDS-E-CW100L

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 2/10/2018 13. DISPOSAL CONSIDERATIONS Products covered by this MSDS, in their original form, when disposed as waste, are considered non hazardous waste according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state and federal 13.1 Waste Disposal: regulations. Dispose of in accordance with federal, state and local regulations. 13.2 Special Considerations: The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state, federal and provincial regulations. 14. TRANSPORTATION INFORMATION The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR 49 CFR (GND): **NOT REGULATED** IATA (AIR): 14.2 **NOT REGULATED** IMDG (OCN): 14.3 NOT REGULATED TDGR (Canadian GND): 14 4 NOT REGULATED ADR/RID (EU): 14.5 NOT REGULATED 14.6 SCT (MEXICO): **NOT REGULATED** ADGR (AUS): 14.7 **NOT REGULATED** 15. REGULATORY INFORMATION SARA Reporting 15.1 This product contains Silver a substance subject to SARA Title III, section 313 reporting requirements. Requirements 15.2 SARA Threshold Planning There are no specific Threshold Planning Quantities for the components of this product. Quantity: 15.3 TSCA Inventory Status: The components of this product are listed on the TSCA Inventory. 15.4 CERCLA Reportable Quantity Silver: 454 kg (1,000 lbs.) (RQ): 15.5 Other Federal Requirements: This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR Subchapter G. (Cosmetics) 15.6 Other Canadian Regulations: This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. Silver is found on the following state criteria list: Florida Toxic Substances List (FL), Massachusetts Hazardous 15.7 State Regulatory Information: Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA). No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances

harm. For more information go to www.P65Warnings.ca.gov

This product does not contain any chemicals known to the State of California to cause cancer or other reproductive

Page 5 of 6

SAFETY DATA SHEET

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 2/10/2018

		16. OTHER INFORMATION
16.1	Other Information:	WARNING! CAUSES EYE IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. Use only as directed. Avoid contact with skin. Avoid contact with eyes. Wear suitable protective clothing/gloves. Avoid breathing dust/mist/vapor/spray. Wash thoroughly after handling. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Specific treatment see this container label. Take off contaminated clothing and was it before reuse. KEEP LOCKED UP AND OUT OF REACH OF CHILDREN.
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & CAIG Laboratories, Inc.'s knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.
16.4	Prepared for:	CAIG Laboratories, Inc. 12200 Thatcher Court Poway, CA 92064-6876 Tel: +1 (800) CAIG-123 (244-4123) Fax: +1 (858) 486-8398 fax http://www.caig.com/
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com

Page 6 of 6

SAFETY DATA SHEET

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards

SDS Revision: 1.0

SDS Revision Date: 2/10/2018

DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number
RTECS No.	Registry of Toxic Effects of Chemical Substances Number
EINECS No.	European Inventory of Existing Commercial Chemical Substances Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
IDLH	Immediately Dangerous to Life and Health
NOHSC	National Occupational Health and Safety Commission (Australia)
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average

FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

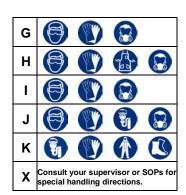
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard	
1	Slight Hazard	
2	Moderate Hazard	
3	Severe Hazard	
4	Extreme Hazard	



PERSONAL PROTECTION RATINGS:

Α			
В			
С		THE STATE OF THE S	
D		THE THE	
Е			
F		THE SECOND	





OTHER STANDARD ABBREVIATIONS:

Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity – Repeat Exposure
STOT SE	Specific Target Organ Toxicity – Single Exposure

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:			
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition		
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source		
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source		

HAZARD RATINGS:

0	Minimal Hazard	FLAMMABILITY
1	Slight Hazard	\ \
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	/ \ \ \ \
₩	Use No Water	HEALTH
ОХ	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

TOXICOLOGICAL INFORMATION:

Lethal Dose (solids & liquids) which kills 50% of the exposed animals
Lethal concentration (gases) which kills 50% of the exposed animal
Concentration expressed in parts of material per million parts
Lowest dose to cause a symptom
Lowest concentration to cause a symptom
Lowest dose (or concentration) to cause lethal or toxic effects
International Agency for Research on Cancer
National Toxicology Program
Registry of Toxic Effects of Chemical Substances
Bioconcentration Factor
Median threshold limit
Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System			
DOT	U.S. Department of Transportation			
TC	Transport Canada			
EPA	U.S. Environmental Protection Agency			
DSL	Canadian Domestic Substance List			
NDSL	Canadian Non-Domestic Substance List			
PSL	Canadian Priority Substances List			
TSCA	U.S. Toxic Substance Control Act			
EU	European Union (European Union Directive 67/548/EEC)			
WGK	Wassergefährdungsklassen (German Water Hazard Class)			

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	*	(2)		\odot	(4)		
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

CLP/GHS (1272/2008/EC) PICTOGRAMS:

			\Diamond			\diamondsuit		*
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment