

Chemtronics[®]

SAFETY DATA SHEET

CIRCUITWORKS® CONDUCTIVE EPOXY - Part B (Hardener)

GHS product identifier	: CIRCUITWORKS® CONDUCTIVE EPOXY - Part B (Ha	ardener)
Product code	: CW2400, CW2400J, CW2400BLK Part B	
Other means of identification	: Hardener for adhesive.	
Product type	: Solid.	
Relevant identified uses of	f the substance or mixture and uses advised against	
Not applicable.		
Supplier's details	: Chemtronics	€ service chimie
	8125 Cobb Center Drive Kennesaw, GA 30152	5 place de l'Eglise 74400 Saint Thibault des Vigne France
	Tel. 770-424-4888 or toll free 800-645-5244	* +33 (0) 164 308 922 +33 (0) 164 308 749
Emergency telephone number (with hours of operation)	: Chemtrec - 1-800-424-9300 or collect 703-527-3887 24/7	iii hse@service-shimie.fr

OSHA/HCS status	This material is considered hazardous by the OSHA Hazard Communication 29 CFR 1910.1200).	Standard
Classification of the substance or mixture	ACUTE TOXICITY (dermal) - Category 3	
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 100	1%
GHS label elements		
Hazard pictograms		
Signal word	Danger	
Hazard statements	Foxic in contact with skin.	
Precautionary statements		
Prevention	Near protective gloves. Wear protective clothing.	
Response	F ON SKIN: Take off immediately all contaminated clothing and wash it before Nash with plenty of soap and water. Call a POISON CENTER or physician in Inwell.	
Storage	Store locked up.	
Disposal	Dispose of contents and container in accordance with all local, regional, nation nation national regulations.	nal and
Hazards not otherwise classified	None known.	

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Section 3. Composition/information on ingredients

Substance/mixture Other means of

: Mixture

identification

1	Hardener	for adhesive.

Ingredient name	%	CAS number
3,6-diazaoctanethylenediamin	≤6.8	112-24-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary 1	<u>ïrst aid measures</u>		
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.		
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.		
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.		
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.		
Most important symptoms	s/effects, acute and delayed		
Potential acute health eff			
Eye contact	: May cause severe eye irritation.		
Inhalation	: No known significant effects or critical hazards.		
Skin contact	: Toxic in contact with skin.		
Ingestion	: Harmful if swallowed.		
Over-exposure signs/syn			
Eye contact	: Adverse symptoms may include the following: irritation redness watering		
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing		
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Skin contact	 Adverse symptoms may include the following: pain or irritation
	redness
	blistering may occur
Ingestion	: Adverse symptoms may include the following:
	stomach pains
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed.
	: In case of inhalation of decomposition products in a fire, symptoms may be delayed.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media		
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	: None known.	
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.	
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.	
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breath apparatus (SCBA) with a full face-piece operated in positive pressure mode.	ning

Section 6. Accidental release measures

Personal precautions, protect	ive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

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Section 6. Accidental release measures

Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.	
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.	
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.	

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
	AIHA WEEL (United States, 10/2011). Absorbed through skin. TWA: 1 ppm 8 hours.

Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures	

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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Section 8. Exposure controls/personal protection

Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Appearance		
Physical state	:	Liquid. [Paste.]
Color	:	Silver./Gray.
Odor	:	Amine-like.
Odor threshold	:	Not available.
рН	:	Not applicable.
Melting point	:	Not available.
Boiling point	:	>121°C (>249.8°F)
Flash point	1	Closed cup: >93.3°C (>199.9°F) [Setaflash.]
Evaporation rate	1	<1 (butyl acetate = 1)
Flammability (solid, gas)	1	Not available.
Lower and upper explosive (flammable) limits	1	Not available.
Vapor pressure	:	<0.013 kPa (<0.1 mm Hg) [room temperature]
Vapor density	:	>1 [Air = 1]
Relative density	:	4.1
Solubility	:	Not available.
Solubility in water	1	Not available.
Partition coefficient: n- octanol/water	1	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Not available.
Flow time (ISO 2431)	:	Not available.

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Section 10. Stabil	ity and reactivity
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
3,6-diazaoctanethylenediamin	LD50 Dermal LD50 Oral		805 mg/kg 2500 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
3,6-diazaoctanethylenediamin	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Eyes - Severe irritant	Rabbit	-	49 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 5 milligrams	-
	Skin - Severe irritant	Rabbit	-	490 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure) Not available.

Specific target organ toxicity (repeated exposure) Not available.

Aspiration hazard

Not available.

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nformation on the likely	: Not available.
outes of exposure	
Potential acute health effect	: <u>ts</u>
Eye contact	: May cause severe eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Toxic in contact with skin.
Ingestion	: Harmful if swallowed.
Symptoms related to the pl	nysical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following:
	irritation
	redness watering
Inhalation	: Adverse symptoms may include the following:
	respiratory tract irritation
0111111111	coughing
Skin contact	: Adverse symptoms may include the following: pain or irritation
	redness
	blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
Delayed and immediate off	ects and also chronic effects from short and long term exposure
Short term exposure	, dis and also enrolle encots from short and tong term exposure
Potential immediate	: Not available.
effects	
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate	: Not available.
effects	
Potential delayed effects	: Not available.
Potential delayed effects Potential chronic health e	
Potential chronic health e	
Potential chronic health e Not available.	<u>ffects</u>
Potential chronic health e Not available. General	ffects : No known significant effects or critical hazards.
Potential chronic health e Not available. General Carcinogenicity	 ffects No known significant effects or critical hazards. No known significant effects or critical hazards.
Potential chronic health e Not available. General Carcinogenicity Mutagenicity	 ffects No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	2500 mg/kg
Dermal	805 mg/kg

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Section 12. Ecological information

Toxicity			
Product/ingredient name	Result	Species	Exposure
3,6-diazaoctanethylenediamin	Acute EC50 3700 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute LC50 33900 µg/l Fresh water	Daphnia - Daphnia magna	48 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	low

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	Adhesive, sealants	Adhesive, sealants	Adhesive, sealants	Adhesive, sealants	Adhesive, sealants	Adhesive, sealants
Transport hazard class(es)	-	-	-	-	-	-
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.
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Section 14. Transport information							
Additional information	Reportable guantity1333.3 lbs / 605.33 kg [39. 003 gal / 147. 	-	-	-	-	The environmentally hazardous substance mark may appear if required by other transportation regulations.	

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

Section 15. Regulatory information

U.S. Federal regulations	:	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
		United States inventory (TSCA 8b): All components are listed or exempted.
		Clean Water Act (CWA) 307: silver
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	:	Not listed
Clean Air Act Section 602 Class I Substances	:	Not listed
Clean Air Act Section 602 Class II Substances	:	Not listed
DEA List I Chemicals (Precursor Chemicals)	:	Not listed
DEA List II Chemicals (Essential Chemicals)	:	Not listed
SARA 302/304		
Composition/information	on	ingredients
No products were found.		
SARA 304 RQ	:	Not applicable.
SARA 311/312		
Classification	1	Immediate (acute) health hazard
Composition/information	on	ingredients

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Section 15. Regulatory information							
Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard	
3,6-diazaoctanethylenediamin	≤6.8	No.	No.	No.	Yes.	No.	

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	silver	7440-22-4	≥75 - ≤90
Supplier notification	silver	7440-22-4	≥75 - ≤90

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	: The following components are listed: SILVER; TRIETHYLENETETRAMINE
New York	: The following components are listed: Silver
New Jersey	 The following components are listed: SILVER; TRIETHYLENE TETRAMINE; 1, 2-ETHANEDIAMINE, N,N'-BIS(2-AMINOETHYL)-
Pennsylvania	: The following components are listed: SILVER COMPOUNDS; 1,2-ETHANEDIAMINE, N, N'-BIS(2-AMINOETHYL)-

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals	
Not listed.	

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals Not listed.

International lists

National inventory		
Australia	:	All components are listed or exempted.
Canada	:	All components are listed or exempted.
China	:	All components are listed or exempted.
Europe	:	Not determined.
Japan	:	Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	:	Not determined.
New Zealand	:	All components are listed or exempted.
Philippines	1	All components are listed or exempted.
Republic of Korea	1	All components are listed or exempted.
Taiwan	1	All components are listed or exempted.
Turkey	1	Not determined.

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Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

	Classification	Justification
ACUTE TOXICITY (dermal)	Calculation method	
<u>History</u>		
Date of printing	: 11/13/2018	
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Version	: 1	
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classificatio IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition co MARPOL = International Convention for the Prevent as modified by the Protocol of 1978. ("Marpol" = ma UN = United Nations	efficient ion of Pollution From Ships, 1973
References	: Not available.	
Indicates information the	at has changed from previously issued version.	

Notice to reader

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Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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