

Conductive Ink Pen

PK-9031B



About the Product

This is a disposable pen containing silver conductive ink. A line of silver ink has a resistivity of 50 to 125 $\mu\Omega\text{-cm}$. Using the pen in conjunction with PASCO conductive paper (PK-9025B and PK-9026) produces an insignificant voltage drop across the line. The paper has a resistivity of approximately 5000 $\Omega\text{/square}$. The ink pen yields approximately 200 feet of continuous line and has a shelf life of approximately six months.

Notes

- Before using, shake the pen vigorously with the cap on to disperse particles suspended in the ink.
- Press the tip lightly against the paper and squeeze the barrel while writing.
- Allow 3 to 5 minutes for the ink to dry at room temperature. Maximum conductivity requires 20 minutes of drying.
- After each use, close the cap tightly on the pen to keep the ink from drying.
- Store the pen in a refrigerator to maximize the shelf life.

Technical Support

Need more help? Our knowledgeable and friendly Technical Support staff is ready to provide assistance with this or any other PASCO product.

Phone (USA)	1-800-772-8700 (Option 4)
Phone (International)	+1 916 462 8384
Online	pasco.com/support

Warranty, Copyright, and Trademarks

Limited Warranty

For a description of the product warranty, see the Warranty and Returns page at www.pasco.com/legal.

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SAFETY DATA SHEET

CircuitWorks Conductive Pen



Section 1. Identification

GHS product identifier : CircuitWorks Conductive Pen
 Product code : CW2200 STP, CW2200MTP
 Other means of identification : Not available.
 Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

Supplier's details : Chemtronics
 8125 Cobb Center Drive
 Kennesaw, GA 30152
 Tel: 770-424-4888 or toll free 800-645-5244
 Chemtrac - 1-800-424-9300 or collect 703-57-3887
 24/7

Emergency telephone number (with hours of operation)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
 Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 2
 IRRITANT - Category 2
 EYE IRRITATION - Category 2A
 Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 55%

GHS label elements
 Hazard pictograms



Signal word
 Hazard statements

Danger
 Highly flammable liquid and vapor.
 Harmful if inhaled.
 Causes serious eye irritation.

Precautionary statements

Prevention : Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. Do not smoke. Avoid breathing spray, mist, fumes, vapors, or gas. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor.
 Wash hands thoroughly after handling.

Response

Call a poison center or hospital immediately if inhaled. Call a poison center or hospital immediately if contaminated clothing. Rinse skin with water or shower. 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 attention.

Storage

Store in a well-ventilated place. Keep cool.

Disposal

Dispose of contents and container in accordance with all local, regional, national and international regulations.

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: 11/02/08

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Section 2. Hazards identification

Material classified : NOTE KNOWN.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
 Other means of identification : Not available.

Ingredient name	%	CAS number
n-butyl acetate	<5	123-86-4
2-butoxyethyl acetate	<5	112-07-2

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 first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation persists.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, provide artificial respiration and oxygen by trained personnel. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. 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.

Skin contact

: Flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. 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 feels sick, vomiting may be necessary. 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 if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Harmful if inhaled.

Skin contact : May cause skin irritation.

Ingestion : Do not ingest. If swallowed then seek immediate medical assistance.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following: pain or irritation watering redness

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For the complete SDS go to:
<https://www.chemtronics.com/sds-tds>
 Search Term: CW2200