

SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

Company Address:

8125 Cobb Center Drive
Kennesaw, GA 30152

Product Information: 800-TECH-401
Customer Service: 800-645-5244

Emergency: (Chemtrec) 800-424-9300
Revision Date: January 15, 2003

Product Identification

CIRCUITWORKS® QUICK-BOND GEL ADHESIVE KIT - Part A (Adhesive)

Product Code: CW4300 (Part A)

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Wt. % Range
Ethyl Cyanoacrylate (Skin Bonder)	7085-85-0	80.0 - 90.0
Polymethyl Methacrylate	9011-14-7	10.0 - 20.0
Amorphous Silica	112945-52-5	5.0 - 10.0

SECTION 3: HAZARDOUS IDENTIFICATION

Emergency Overview: Colorless paste with slightly pungent odor. This product is nonflammable. Liquid will bond skin rapidly and strongly. Vapors can irritate nasal passages and the respiratory system.

CAUTION: Contact with cotton or wool may result in a strong exothermic reaction which can cause burns or fire. Read this MSDS carefully before handling product.

Potential Health Effects:

Eyes: Vapors of this product may irritate the eyes and can cause acute but mild tearing, reddening accompanied by a stinging sensation. Liquid may bond eyelid to eyelid and/or eye.

Skin: Contact will cause immediate bonding of the skin.

Ingestion: Caution. It is almost impossible to swallow Cyanoacrylates. The adhesive solidifies and adheres in the mouth.

Inhalation: Caution. Vapors may cause irritation of nose and bronchial passages. Avoid prolonged inhalation.

Pre-Existing Medical Conditions Aggravated by Exposure: Lung, eye, skin.

SECTION 4: FIRST AID MEASURES

Eyes: Immediately flush with large amounts of lukewarm water for at least 15 minutes and apply gauze patch. Have eyes examined by a Physician if irritation develops or persists. If eyelids are stuck together, the eye should open again in one to two days. Do not attempt to open the eyes by manipulation.

Skin: Soak skin in warm water, while flexing bonded areas to release cured material. Do not force separation. Do not cut skin. Get medical attention if irritation develops or persists. Do not attempt to mechanically remove adhesive or pull bonded skin apart.

Ingestion: Mouth - Saliva should lift the adhesive in 12 to 48 hours. Do not force removal. Lips - Apply plenty of warm water. Use maximum wetting and pressure from saliva inside the mouth. Peel or roll the lips apart, gently. Do not cut skin. Get medical attention.

Inhalation: In case of exposure to high concentrations of vapor, remove to fresh air. If breathing is difficult, give oxygen and call a Physician.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: 185°F (Setaflash Closed Cup) **LEL/UEL:** Not determined (% by volume in air)

Extinguishing Media: Use Water spray, Carbon Dioxide, Alcohol foam or dry chemical when fighting fires involving this material.

Fire Fighting Instructions: Remove all ignition sources. Use water spray to cool overheated containers. Take care not the spread fire with water. As in any fire, wear self-contained breathing apparatus (pressure demand, OSHA/NIOSH approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Large Spills: Remove all sources of ignition (sparks, open flames, etc.). Wear self-contained breathing apparatus and appropriate personal protective equipment. Flood area with water to polymerize spilled material, then scrape up polymerized adhesive and place in a chemical waste container for proper disposal. Do not flush to sewer. Prevent material from entering storm sewers, ditches that lead to waterways and ground. **CAUTION:** Cloths used to wipe up spill may cause rapid polymerization and generate enough heat to ignite the cloth.

Small Spills: Absorb spill with cloth, then soak cloth in water to polymerize adhesive. Dispose of in accordance with state, and local regulations.

SECTION 7: HANDLING AND STORAGE

Avoid prolonged or repeated contact with skin, eyes or clothing. Wash hands before eating. Use with adequate ventilation. Avoid breathing product vapor. Do not reuse this container. Store in a cool dry place, away from heat, sparks or flames. Keep container tightly closed when not in use. Do not store in direct sunlight.

KEEP OUT OF REACH OF CHILDREN.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Guidelines:

CHEMICAL NAME	ACGIH TLV	OSHA PEL	ACGIH STEL
Ethyl Cyanoacrylate (Skin Bonder)	0.2 ppm	NA	NA

Work/Hygienic Practices: Good general ventilation should be sufficient to control airborne levels. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Wear safety glasses with side shields or goggles and rubber or other chemically resistant gloves when handling this material.

NFPA and HMIS Codes:	NFPA	HMIS
Health	2	2
Flammability	2	2
Reactivity	1	1
Personal Protection	-	B

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIESPhysical State: Clear gelOdor: Slightly pungentpH: NAVapor Pressure: <0.2 mmHg @ 68 FVapor Density: 3Water Miscibility: NegligibleSpecific Gravity: 1.10Boiling Point: >300°FPercent Volatile: 0%**SECTION 10: STABILITY AND REACTIVITY**Stability: This product is stable. Conditions to Avoid: Avoid exposure to water.Incompatibility: Do not mix with water, alcohols, amines, strong bases or peroxides, cotton or wool.Products of Decomposition: Thermal decomposition may release carbon monoxide, carbon dioxide, oxides of nitrogen.Hazardous Polymerization: Will not occur.Conditions to avoid: NA**SECTION 11: TOXICOLOGICAL INFORMATION**

Ingredients	LD50	(g/Kg)	LC50 (ppm)
	(rat) Oral	(rbt) Dermal	(rat) Inhalation
Ethyl Cyanoacrylate (Skin Bonder)	NA	NA	NA

Cancer Information: No ingredients listed as human carcinogens by NTP or IARCReproductive effects: noneTeratogenic effects: noneMutagenic effects: none**SECTION 12: ECOLOGICAL INFORMATION****Environmental Impact Information**

Avoid runoff into storm sewers and ditches which lead to waterways. Water runoff can cause environmental damage.

REPORTINGUS regulations require reporting spills of this material that could reach any surface waters. The toll free number for the US Coast Guard National Response Center is: **1-800-424-8802****SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose of in accordance with all federal, state and local regulations. Water runoff can cause environmental damage.

SECTION 14: TRANSPORTATION INFORMATIONAir and Ground Shipments:

Adhesives, sealants

Not Regulated

SECTION 15: REGULATORY INFORMATION**SECTION 313 SUPPLIER NOTIFICATION**

This product contains no toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).

This information should be included on all MSDSs copied and distributed for this material.

TOXIC SUBSTANCES CONTROL ACT (TSCA)

All ingredients of this product are listed on the TSCA Inventory.

WHMIS: Class D2B

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16: OTHER INFORMATION

Normal ventilation for standard manufacturing practices is usually adequate. Local exhaust should be used when large amounts are released.

To the best of our knowledge, the information contained herein is accurate. However, all materials may present unknown hazards and should be used with caution. In particular, improper use of our products and their inappropriate combination with other products and substances may produce harmful results which cannot be anticipated. Final determination of the suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist.