

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: (Chemtreec) 800-424-9300
Revision Date: February 17, 2010

Product Identification

CIRCUITWORKS® RUBBER KEYPAD REPAIR KIT - Part A (Adhesive)

Product Code: CW2605 (Part A)

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Wt. % Range
Silver	7440-22-4	60.0-80.0
Carbon	1333-86-4	3.0-10.0
Silicon Dioxide	112945-52-5	1.0-5.0
Synthetic Rubber	mixture	5.0-25.0
2-(2-Ethoxyethoxy) ethyl acetate	112-15-2	5.0-25.0
2-Butoxyethyl Acetate	112-07-2	5.0-25.0

SECTION 3: HAZARD IDENTIFICATION

Emergency Overview: Gray/dark silver paste with fruity ester-like odor. This product is flammable. Liquid and vapors will irritate eyes and skin. Breathing high concentrations of product may cause nausea and dizziness.

Potential Health Effects:

Eyes: Vapors and liquid of this product may cause irritation of the eyes.

Skin: Contact may cause irritation. Absorption through the skin may result in the absorption of potentially harmful amounts of material. Effect may be similar to ingestion.

Inhalation: Harmful if inhaled. May cause irritation to the respiratory tract and to other mucous membranes. May cause headache, nausea and dizziness. May cause damage to lungs, kidneys and central nervous system.

Ingestion: Harmful if swallowed. Same as inhalation. May cause red blood cell hemolysis and possible kidney and liver damage. Generalized argyria may result from silver ingestion. **DO NOT INGEST.**

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

SECTION 4: FIRST AID MEASURES

Eyes: Immediately flush with large amounts of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined by a Physician if discomfort persists.

Skin: Remove contaminated clothing and wash skin with soap and water. Get medical attention if irritation develops or persists. Wash clothing separately before reuse.

Ingestion: If swallowed, give two or more glasses of water immediately. **DO NOT** induce vomiting. Get medical attention.

Inhalation: In case of exposure to high concentrations of vapor or mist, remove to fresh air. If breathing is difficult, give oxygen and call a Physician. If breathing has stopped, apply artificial respiration and call a Physician.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: 158°F (70C) (TCC)

LEL/UEL: 0.5-19.4 (% by volume in air)

Extinguishing Media: Use alcohol foam, water foam, carbon dioxide, dry chemical, or water spray. Water may not be effective in fighting the fire but can be used to cool overheated areas. Care must be taken to not spread the fire.

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. Solvent vapors are an explosion hazard. Keep material away from all sources of ignition, extreme heat, sparks or open flame. Material can be easily ignited and burns with intense heat.

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. Ventilate area and contain and absorb spill with inert material. Collect spill by scooping up liquids and absorbent material 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.

Small Spills: Absorb spill with absorbent material, then place in a chemical waste container for proper disposal.

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
Silver	0.1 mg/m3 (dust)	0.01 mg/m3 (dust)	NA
2-(2-Ethoxyethoxy) ethyl Acetate	NA	NA	NA
Carbon	3.5 mg/m3 (dust)	3.5 mg/m3 (dust)	NA
Silicon Dioxide	NA	NA	NA
Synthetic Rubber	NA	NA	NA
2-Butoxyethyl Acetate	20 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. If vapor concentration exceeds TLV, use NIOSH approved organic vapor cartridge respirator. Wear safety glasses with side shields or goggles and rubber or other chemically resistant gloves when handling this material.

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Revision Date: February 17, 2010

Product Identification

CIRCUITWORKS® RUBBER KEYPAD REPAIR KIT - Part B (Curing Agent)

Product Code: CW2605 (Part B)

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Wt. % Range
2-(2-Ethoxyethoxy) ethyl acetate	112-15-2	50.0-85.0
Methanol	67-56-1	1.0-3.0
Alkoxysilane ester	mixture	5.0-25.0

SECTION 3: HAZARD IDENTIFICATION

Emergency Overview: Amber liquid with a pungent odor. This product is combustible. Liquid and vapors will irritate eyes and skin. Breathing high concentrations of product may cause headache, nausea, dizziness.

Potential Health Effects:

Eyes: Vapors of this product may irritate the eyes. Liquid is irritating and potentially damaging. Can cause chemical burns of the cornea.

Skin: Contact may cause severe irritation. Repeated contact can cause absorption of potentially harmful amounts of material.

Ingestion: Harmful or fatal if swallowed. Causes vomiting, nausea, diarrhea, and irritation of the mouth, throat, and stomach and mental sluggishness. Can cause liver and kidney and heart muscle damage, blindness, even death. DO NOT INGEST.

Inhalation: Harmful if inhaled. May cause irritation to the respiratory tract. May lead to headache, nausea, dizziness, vomiting, loss of coordination, central nervous system depression and unconsciousness.

Pre-Existing Medical Conditions Aggravated by Exposure: Liver, kidney, heart, lung, eye, skin.

SECTION 4: FIRST AID MEASURES

Eyes: Immediately flush with large amounts of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined by a Physician.

Skin: Remove contaminated clothing and wash skin with soap and water. Get medical attention if irritation develops or persists. Wash clothing separately before reuse.

Ingestion: If swallowed, give two or more glasses of water immediately and induce vomiting. Get medical attention.

Inhalation: In case of exposure to high concentrations of vapor or mist, remove to fresh air. If breathing is difficult, give oxygen and call a Physician. If breathing has stopped, apply artificial respiration and call a Physician.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: 212°F (100C) [2-(2-Ethoxyethoxy) ethyl acetate] LEL/UEL: not available (% by volume in air)

Extinguishing Media: Use alcohol foam, water foam, carbon dioxide, dry chemical, or water spray. Water may not be effective in fighting the fire but can be used to cool overheated areas. Care must be taken to not spread the fire.

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. Solvent vapors are an explosion hazard. Keep material away from all sources of ignition, extreme heat, sparks or open flame. Material can be easily ignited and burns with intense heat.

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. Ventilate area and contain and absorb spill with inert material. Collect spill by scooping up liquids and absorbent material 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.

Small Spills: Absorb spill with absorbent material, then place in a chemical waste container for proper disposal.

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
2-(2-Ethoxyethoxy) ethyl Acetate	NA	NA	NA
Methanol	200 ppm	200 ppm	250 ppm
Alkoxy Silane Ester	NA	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. If vapor concentration exceeds TLV, use NIOSH approved organic vapor cartridge respirator. 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	3	3
Flammability	2	2
Reactivity	1	1
Personal Protection	-	B

