ITW CHEMTRONICS MSDS #8300

SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

Company Address: 8125 Cobb Center Drive Kennesaw, GA 30152

> Product Information: 800-TECH-401 Emergency: (Chemtrec) 800-424-9300 800-645-5244 Revision Date: Customer Service: November 2, 2007

Product Identification

CIRCUITWORKS® WATER SOLUBLE FLUX DISPENSING PEN

Product Code: CW8300								
SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS								
Product Ingredient Information	CAS#	Wt. % Range						
Isopropanol	67-63-0	60.0-95.0						
Glycerol	56-81-5	10.0-30.0						
Lactic acid	50-21-5	1.0-10.0						
Diethanolamine	111-42-2	1.0-10.0						
Dimethylamine hydrochloride	506-59-2	1.0-10.0						
Hydroxyacetic acid	79-14-1	1.0-2.0						

SECTION 3: HAZARD IDENTIFICATION

Emergency Overview: Clear, amber liquid with alcohol odor. This product is flammable. Liquid will irritate eyes and skin under repeated or prolonged exposure. Breathing high concentrations of product vapor may produce drowsiness and a headache.

Potential Health Effects:

Liquid and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation. Vapors released Eyes: from the soldering process may cause eye irritation.

Prolonged contact may cause skin irritation. Skin:

Ingestion: Harmful if swallowed. Irritating to mouth, throat and stomach. May cause vomiting.

Inhalation: Harmful if inhaled. High concentrations of vapors in immediate area can displace oxygen and can cause dizziness and unconsciousness, with longer exposure. Vapors from soldering processes may cause irritation of the nose and throat.

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

SECTION 4: FIRST AID MEASURES

If eye irritation occurs immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Eves: Have eyes examined and tested by medical personnel if irritation develops or persists.

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

Ingestion: Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but get immediate medical attention.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and get immediate medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: 64°F (18C) (TCC)

LEL/UEL: Not established (% by volume in air)

Extinguishing Media: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

Fire Fighting Instructions: 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: Not likely to occur.

Small Spills: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container for proper disposal.

SECTION 7: HANDLING AND STORAGE

Avoid prolonged or repeated contact with eyes and skin. Wash hands before eating. Use with adequate ventilation. Avoid breathing product vapor or mist. Avoid breathing product vapor or mist. Avoid breathing vapors given off by he soldering process. Do not reuse this container. Store in a cool dry place away from heat, sparks and flame. Keep container 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 200 ppm Isopropanol 400 ppm 400 ppm Diethanolamine 2 mg/m3 skin NA NA

Work/Hygienic Practices: Ventilation is recommended to control airborne levels of soldering process vapors. Wear safety glasses with side shields (or goggles) and chemical resistant gloves when handling this material.

NFPA and HMIS Codes:	NFPA	HMIS
Health	1	1
Flammability	3	3
Reactivity	1	1
Personal Protection	- B	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Solubility in Water: Soluble Physical State: Clear, amber liquid Odor: Alcohol Specific Gravity: (Water =1) 0.90

<u>pH:</u> 6.7 Evaporation Rate: > 1 Vapor Pressure: 37 mm Hg @ 68°F (Butyl acetate =1) Vapor Density: > 1 Viscosity: 1 (Approx.)

(Air = 1)(Water = 1)

Boiling Point: 180°F (82C) Percent Volatile: >90 %

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SECTION 10: STABILITY AND REACTIVITY

Stability - This product is stable.

<u>Conditions to Avoid:</u> Do not use near open flames, red hot surfaces or other sources of ignition.

Incompatibility: Do not mix with strong acids or strong oxidizing agents.

<u>Products of Decomposition:</u> Thermal decomposition may release carbon monoxide, carbon dioxide and incompletely burned hydrocarbons.

Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological Information

Isopropanol

Inhalation:

LC50/rats 12,000 ppm/8hr

Ingestion: Isopropanol

LD50 rats 5,045 mg/kg

Diethanolamine LD50 rats 1,600 mg/kg

Skin: Eye: Rabbit LD50

12,800 mg/kg Isopropanol

Isopropanol

MLD-MOD rabbit

Diethanolamine Rabbit LD50 12,200 mg/kg

Cancer Information: No ingredients listed as human carcinogens by NTP or IARC

Reproductive effects: none Teratogenic effects: none Mutagenic 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.

REPORTING

US 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 INFORMATION

	Proper Shipping Name	UN Number	Class	Sub. <u>Risk</u>	Pkg. <u>Group</u>	Hazard <u>Label</u>	Pkg. <u>Instr./Auth</u>	Max. Quantity
Air:	Flammable liquid n.o.s. (Isopropanol)	UN 1993	3	NA	II	Flammable liquid	305	1L
Ground:	Consumer Commodity ORM-D	NA	NA		NA	ORM-D	173.150	

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 B2; 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

Product should be used only with adequate ventilation. Mechanical ventilation is recommended on all soldering workstations.

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.