Section	1	PRODUCT	AND	COMPANY	IDENTIFICATION

______ HMIS CODES

PRODUCT NAME Health C-Flux Flammability Reactivity PRODUCT CODES PPI

74025, 74026

CHEMICAL FAMILY Organic/Inorganic

USE

Soldering Flux

MANUFACTURER'S NAME EMERGENCY TELEPHONE NO. The RectorSeal Corporation Chemtrec 24 Hours 2601 Spenwick Drive (800) 424-9300

Houston, Texas 77055 USA

VALIDATION DATE TECHNICAL SERVICE TELEPHONE NO. (800) 231-3345

March 15, 2006 REVISION DATE

March 15, 2006

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT		INGREDIENT UNITS	
<20	7646-85-7	Zinc Chloride	
		ACGIH TLV 1 mg/m3	
		OSHA PEL 1 mg/m3	
<1	12125-02-9	Ammonium Chloride	
		ACGIH TLV 10 mg/m3	
		OSHA PEL 10 mg/m3	
<10	1314-13-2	Zinc Oxide	
		ACGIH TLV 5 mg/m3	
		OSHA PEL 5 mg/m3	
_	7440-31-5	Tin	
		ACGIH TLV 5 mg/m3	
		OSHA PEL 5 mg/m3	
<1	7440-36-0	Antimony	
		ACGIH TLV 0.5 mg/m3	
		OSHA PEL 0.5 mg/m3	

Section 3 -- HAZARDS IDENTIFICATION

SUMMARY OF ACUTE HAZARDS

Irritation to respiratory system from fumes evolved during soldering. Eye contact may cause intense irritation and injury. ROUTE OF EXPOSURE, SIGNS AND SYMPTOMS

Irritation to respiratory system from fumes evolved during soldering. EYE CONTACT

Contact may cause intense irritation and injury. SKIN CONTACT

May cause skin irritation.

INGESTION

INHALATION

Nausea, vomiting, irritation to digestive system. SUMMARY OF CHRONIC HAZARDS

Short term effects to liver and kidneys can occur. Chemical irritation from continued skin contact can occur. Continuous industrial use in small unventilated areas may result in sufficient inhalation of solder and flux fumes to cause lung damage and irritation of respiratory tract.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Individuals with pre-existing or chronic diseases of the eyes, skin, respiratory system, cardiovascular system, gastrointestinal system, liver, or kidneys may have increased susceptibility to excessive exposure.

Section 4 -- FIRST AID MEASURES

If INHALED: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt

action is essential.

If on SKIN: Immediately wash with soap and water. Remove and wash

any contaminated clothing.

If in EYES: Flush eyes with large amounts of water for 15 minutes.

Get medical attention if irritation persists.

If SWALLOWED: If swallowed, call a physician immediately. Only induce

vomiting at the instruction of a physician. Never give

anything by mouth to an unconscious person.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT LEL UEL >230 F (110 C) SETA CC N/D N/D

EXTINGUSING MEDIA

Foam, dry chemical, carbon dioxide or water fog. SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained full face piece breathing apparatus and other protective clothing. Hazardous decomposition products possible (see Section 10). May release ZnO and HCl fumes. UNUSUAL FIRE AND EXPLOSION HAZARDS: Heat may build up pressure and rupture closed containers.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wipe up spills to prevent footing hazard. Avoid flushing into sewers, drains, waterways and

soil. Wear protective clothing during clean up.

Section 7 -- HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container closed and upright when not in use. Store flux at ambient conditions. Wash thoroughly after handling to remove all residue.

OTHER PRECAUTIONS: Avoid prolonged or repeated contact with skin or clothing.

Empty containers may contain residues; treat as if full and observe all products precautions. Do not reuse empty containers.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE): In confined, poorly ventilated areas, use NIOSH/MSHA approved air purifying or supplied air respirators during

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soldering operations until fumes have dissipated.
VENTILATION - LOCAL EXHAUST: Acceptable
SPECIAL: N/A
MECHANICAL (GENERAL): Acceptable
OTHER: N/A
PROTECTIVE GLOVES: Wear rubber gloves.
EYE PROTECTION: Safety glasses (ANSI Z-87.1 or equivalent)
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls recommended.
WORK/HYGIENIC PRACTICES: Where use can result in skin contact, wash exposed
  areas thoroughly before eating, drinking, smoking, or leaving work area.
  Launder contaminated clothing before reuse.
______
         Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES
BOILING POINT:
                                 N/D
SPECIFIC GRAVITY (H20 = 1):
                                 1.59
VAPOR PRESSURE (mm Hg):
MELTING POINT:
                                N/D
VAPOR DENSITY (AIR = 1):
EVAPORATION RATE (ETHYL ACETATE = 1): N/A
APPEARANCE/ODOR:
                                Gray Paste / No Odor
SOLUBILITY IN WATER:
                                 Insoluble
VOLATILE ORGANIC COMPOUNDS (VOC) Content
(Theoretical Percentage By Weight): 0% or (0 g/L)
______
        Section 10 -- STABILITY AND REACTIVITY
STABILITY: Stable
CONDITIONS TO AVOID: None
INCOMPATIBILITY (MATERIALS TO AVOID): None known
HAZARDOUS DECOMPOSITION PRODUCTS: Toxic fumes of zinc, chlorine, and HCL may
be evolved during soldering.
HAZARDOUS POLYMERIZATION: Will not occur.
______
         Section 11 -- TOXICOLOGY INFORMATION
______
CHRONIC HEALTH HAZARDS
  No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.
TOXICOLOGY DATA
Ingredient Name
  Zinc Chloride
               Oral-Rat LD50:350 mg/kg
               Inhalation-Rat LCLo:1960 mg/m3/10M
  Ammonium Chloride
               Oral-Rat LD50:1650 mg/kg
               Inhalation-Rat LC50:N/D
  Zinc Oxide
               Oral-Rat TDLo:6846 mg/kg
               Inhalation-Mouse LC50:2500 mg/m3
  Tin
               Oral-Rat TD50:N/D
               Inhalation-Rat LC50:N/D
  Antimony
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Oral-Rat LD50:7 g/kg

Inhalation-Rat TCLo:50 mg/m3/7H/52W-I

	Section 12 Ecological Information	
ECOLOGICAL Ingredient	DATA	
Zinc Chi		
	Food Chain Concentration Potential	None
	WATERFOWL TOXICITY	N/A
	BOD	None
Ammonium	AQUATIC TOXICITY: 7.2 ppm/96 hr/medm Chloride	dium bluegili/TLM
7111111011111011	Food Chain Concentration Potential	None
	WATERFOWL TOXICITY	N/A
	BOD	N/A
	AQUATIC TOXICITY: 6 ppm/96 hr/sunfi	ish TLm
Zinc Ox:	ide	
	Food Chain Concentration Potential	N/D
	WATERFOWL TOXICITY	N/D
	BOD	N/D
	AQUATIC TOXICITY:	N/D
Tin	- 1 61 1 6	
	Food Chain Concentration Potential	N/D
	WATERFOWL TOXICITY	N/D N/D
	BOD AQUATIC TOXICITY:	N/D N/D
Antimon		N/ D
Ancimon	Food Chain Concentration Potential	N/D
	WATERFOWL TOXICITY	N/D
	BOD	N/D
	AQUATIC TOXICITY:	N/D
=======	Section 13 DISPOSAL CONSIDERATIONS	
	sification: Non-regulated solid waste	
	ethod: Approved landfill	
	this product is not considered hazardous as	
-	Conservation and Recovery Act (RCRA) 40 CFF	Z ZAL DISDOSE OT ID
	se with redetal, State, and Local redutation	
accordan		n regarding pollution.
accordan		n regarding pollution.
accordano	Section 14 TRANSPORTATION INFORMATION	n regarding pollution.
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accordance	Section 14 TRANSPORTATION INFORMATION Non-Regulated Solution Non-Regulated Non-Regulated ADA): Non-Regulated Section 15 REGULATORY INFORMATION DATA Name	regarding pollution.
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accordance	Section 14 TRANSPORTATION INFORMATION Non-Regulated Solution Non-Regulated Non-Regulated ADA): Non-Regulated Section 15 REGULATORY INFORMATION DATA Name	regarding pollution.
accordance	Section 14 TRANSPORTATION INFORMATION Non-Regulated S): Non-Regulated Non-Regulated ADA): Non-Regulated Section 15 REGULATORY INFORMATION DATA Name Loride	regarding pollution.
accordance	Section 14 TRANSPORTATION INFORMATION Non-Regulated Soction 15 REGULATORY INFORMATION DATA Name Name SARA 313 Yes	regarding pollution.

	Ammonium Chlor	ide	
		SARA 313	No
		TSCA Inventory	Yes
		CERCLA RQ	N/A
		RCRA Code	N/A
	Zinc Oxide		
		SARA 313	Yes
		TSCA Inventory	Yes
		CERCLA RQ	N/A
		RCRA Code	N/A
	Tin		
		SARA 313	No
		TSCA Inventory	Yes
		CERCLA RQ	N/A
		RCRA Code	N/A
	Antimony		
		SARA 313	Yes
		TSCA Inventory	Yes
		CERCLA RQ	5,000 lb.
		RCRA Code	N/A
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Section 16 -- OTHER INFORMATION

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, expressed or implied is made. Consult RectorSeal for

information: (713) 263-8001