

MATERIAL SAFETY DATA SHEET

MSDS 0121

=====

==

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

		HMIS CODES	
PRODUCT NAME		Health	2
C-Flux		Flammability	1
		Reactivity	0
PRODUCT CODES		PPI	B
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	CAS No.	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

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 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 (H2O = 1): 1.59
VAPOR PRESSURE (mm Hg): N/D

MELTING POINT: N/D
 VAPOR DENSITY (AIR = 1): N/A
 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	Oral-Rat LD50:7 g/kg Inhalation-Rat TCLo:50 mg/m3/7H/52W-I

=====
 ==

Section 12 -- Ecological Information

 --

ECOLOGICAL DATA
Ingredient Name

```

-----
--
Zinc Chloride
    Food Chain Concentration Potential      None
    WATERFOWL TOXICITY                      N/A
    BOD                                      None
    AQUATIC TOXICITY:  7.2 ppm/96 hr/medium bluegill/TLm
Ammonium Chloride
    Food Chain Concentration Potential      None
    WATERFOWL TOXICITY                      N/A
    BOD                                      N/A
    AQUATIC TOXICITY:  6 ppm/96 hr/sunfish TLm
Zinc Oxide
    Food Chain Concentration Potential      N/D
    WATERFOWL TOXICITY                      N/D
    BOD                                      N/D
    AQUATIC TOXICITY:                      N/D
Tin
    Food Chain Concentration Potential      N/D
    WATERFOWL TOXICITY                      N/D
    BOD                                      N/D
    AQUATIC TOXICITY:                      N/D
Antimony
    Food Chain Concentration Potential      N/D
    WATERFOWL TOXICITY                      N/D
    BOD                                      N/D
    AQUATIC TOXICITY:                      N/D
=====

```

```

==
                Section 13 -- DISPOSAL CONSIDERATIONS
-----

```

```

--
Waste Classification:  Non-regulated solid waste
Disposal Method:      Approved landfill
Waste from this product is not considered hazardous as defined under the
    Resource Conservation and Recovery Act (RCRA) 40 CFR 261.  Dispose of in
    accordance with Federal, State, and Local regulation regarding pollution.
=====

```

```

==
                Section 14 -- TRANSPORTATION INFORMATION
-----

```

```

--
DOT:                Non-Regulated
OCEAN (IMDG):       Non-Regulated
AIR (IATA):         Non-Regulated
WHMIS (CANADA):     Non-Regulated
=====

```

```

==
                Section 15 -- REGULATORY INFORMATION

```

 --
 REGULATORY DATA
 Ingredient Name

--
 Zinc Chloride
 SARA 313 Yes
 TSCA Inventory Yes
 CERCLA RQ 1000 lb.
 RCRA Code N/A
 Ammonium Chloride
 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
 =====

==

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 further information: (713) 263-8001