

MATERIAL SAFETY DATA SHEET

MSDS 0121

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: C-Flux
HMIS CODES: Health 2, Flammability 1, Reactivity 0
PRODUCT CODES: 74025, 74026
CHEMICAL FAMILY: Organic/Inorganic
USE: Soldering Flux
MANUFACTURER'S NAME: The RectorSeal Corporation
EMERGENCY TELEPHONE NO.: Chemtrec 24 Hours (800) 424-9300
DATE OF PREPARATION: August 7, 2002
TECHNICAL SERVICE TELEPHONE NO.: (800) 231-3345

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT CAS No. INGREDIENT UNITS
230 F (110 C) SETA CC N/D N/D
EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide or water fog.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained full face piece breathing apparatus...
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.

Laundry contaminated clothing before reuse.

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Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES  
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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  
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Section 10 -- STABILITY AND REACTIVITY  
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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.  
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Section 11 -- TOXICOLOGY INFORMATION  
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CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

TOXICOLOGY DATA

Ingredient Name  
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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  
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Section 12 -- Ecological Information  
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ECOLOGICAL DATA

Ingredient Name  
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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  
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	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

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Section 13 -- DISPOSAL CONSIDERATIONS  
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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.

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Section 14 -- TRANSPORTATION INFORMATION  
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DOT: Non-Regulated  
OCEAN (IMDG): Non-Regulated  
AIR (IATA): Non-Regulated  
WHMIS (CANADA): Non-Regulated

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Section 15 -- REGULATORY INFORMATION  
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REGULATORY DATA  
Ingredient Name  
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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

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Section 16 -- OTHER INFORMATION  
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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