SAFETY DATA SHEET

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

HMIS CODES

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>Health 2</th>
<th>Flammability 1</th>
<th>Reactivity 0</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-Flux</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PRODUCT CODES

74025, 74026, 74027, 74028, 74029

CHEMICAL FAMILY

Organic/Inorganic

USE

Soldering Flux

MANUFACTURER'S NAME

The RectorSeal Corporation

2601 Spenwick Drive

Houston, Texas  77055  USA

CHEMTREC

(800)424-9300 USA

(703)527-3887 International

DATE OF VALIDATION

January 23, 2015

DATE OF PREPARATION

August 1, 2012

Section 2 -- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

OSHA Hazards

Irritant

GHS CLASSIFICATION

PHYSICAL HAZARDS:  None

HEALTH HAZARDS

Acute Toxicity:

Oral: Not Classified

Dermal: Not Classified

Inhalation: Not Classified

Skin Corrosion/Irritation: Not Classified

Serious Eye Damage/Eye Irritation: Not Classified

Respiratory or Skin Sensitization: Not Classified

Germ Cell Mutagenicity: Not Classified

Carcinogenicity: Not Classified

Reproductive Toxicology: Not Classified

Target Organ Systemic Toxicity - Single Exposure: Not Classified

Target Organ Systemic Toxicity - Repeated Exposure: Not Classified

Aspiration Toxicity: Not Classified

GHS Label elements, including precautionary statements

Pictogram: Irritant

Signal Word: Warning

Hazard Statements:

H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

Precautionary Statements:

P102 - Keep out of reach of children.

P262 - Do not get in eyes, on skin, or on clothing.

P264 - Wash hands thoroughly after handling.

P281 - Use personal protective equipment as required.

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

INHALATION
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
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 3 -- COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT: Zinc Chloride
PERCENTAGE BY WEIGHT: <20
CAS#: 7646-85-7
EC#: 231-592-0

INGREDIENT: Ammonium Chloride
PERCENTAGE BY WEIGHT: <1
CAS#: 12125-02-9
EC#: 235-186-4

INGREDIENT: Zinc Oxide
PERCENTAGE BY WEIGHT: <10
CAS#: 1314-13-2
EC#: 215-222-5

INGREDIENT: Tin
PERCENTAGE BY WEIGHT: -
CAS#: 7440-31-5
EC#: 231-141-8

INGREDIENT: Antimony
PERCENTAGE BY WEIGHT: <1
CAS#: 7440-36-0
EC#: 231-146-5

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

EXTINGUISHING 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

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Chloride</td>
<td></td>
</tr>
<tr>
<td>ACGIH TLV</td>
<td>1 mg/m3</td>
</tr>
<tr>
<td>OSHA PEL</td>
<td>1 mg/m3</td>
</tr>
<tr>
<td>Ammonium Chloride</td>
<td></td>
</tr>
<tr>
<td>ACGIH TLV</td>
<td>10 mg/m3</td>
</tr>
<tr>
<td>OSHA PEL</td>
<td>10 mg/m3</td>
</tr>
<tr>
<td>Zinc Oxide</td>
<td></td>
</tr>
<tr>
<td>ACGIH TLV</td>
<td>5 mg/m3</td>
</tr>
<tr>
<td>OSHA PEL</td>
<td>5 mg/m3</td>
</tr>
<tr>
<td>Tin</td>
<td></td>
</tr>
<tr>
<td>ACGIH TLV</td>
<td>5 mg/m3</td>
</tr>
<tr>
<td>OSHA PEL</td>
<td>5 mg/m3</td>
</tr>
<tr>
<td>Antimony</td>
<td></td>
</tr>
<tr>
<td>ACGIH TLV</td>
<td>0.5 mg/m3</td>
</tr>
<tr>
<td>OSHA PEL</td>
<td>0.5 mg/m3</td>
</tr>
</tbody>
</table>

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/HYGIEIC 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

<table>
<thead>
<tr>
<th>PROPERTIES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BOILING POINT:</td>
<td>N/D</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY (H2O = 1):</td>
<td>1.59</td>
</tr>
<tr>
<td>VAPOR PRESSURE (mm Hg):</td>
<td>N/D</td>
</tr>
<tr>
<td>MELTING POINT:</td>
<td>N/D</td>
</tr>
<tr>
<td>VAPOR DENSITY (AIR = 1):</td>
<td>N/A</td>
</tr>
<tr>
<td>EVAPORATION RATE (ETHYL ACETATE = 1):</td>
<td>N/A</td>
</tr>
<tr>
<td>APPEARANCE/ODOR:</td>
<td>Gray Paste / No Odor</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER:</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Flash POINT</td>
<td>&gt;230 F (110 C) SETA CC</td>
</tr>
<tr>
<td>LOWER EXPLOSION LIMIT</td>
<td>N/D</td>
</tr>
</tbody>
</table>
UPPER EXPLOSION LIMIT N/D
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

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Oral-Rat LD50:350 mg/kg</th>
<th>Inhalation-Rat LC50:1960 mg/m3/10M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Chloride</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ammonium Chloride</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zinc Oxide</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antimony</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 12 -- Ecological Information

ECOLOGICAL DATA
Ingredient Name

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Food Chain Concentration Potential</th>
<th>WATERFOWL TOXICITY</th>
<th>BOD</th>
<th>AQUATIC TOXICITY:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Chloride</td>
<td>None</td>
<td>N/A</td>
<td>None</td>
<td>7.2 ppm/96 hr/medium bluegill/Tlm</td>
</tr>
<tr>
<td>Ammonium Chloride</td>
<td>None</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Zinc Oxide</td>
<td>None</td>
<td>N/A</td>
<td>N/A</td>
<td>6 ppm/96 hr/sunfish Tlm</td>
</tr>
<tr>
<td>Tin</td>
<td>None</td>
<td>N/D</td>
<td>N/D</td>
<td></td>
</tr>
<tr>
<td>Antimony</td>
<td>None</td>
<td>N/D</td>
<td>N/D</td>
<td></td>
</tr>
</tbody>
</table>

Antimony
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