Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

HMIS CODES

PRODUCT NAME  Health  Flammability  Reactivity
Nokorode Aqua Flux  1  1  0

PRODUCT CODES
74044, 74046, 74047

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

DATE OF PREPARATION  TECHNICAL SERVICE TELEPHONE NO.
August 7, 2002  (800) 231−3345

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT CAS No. INGREDIENT UNITS
10−25  7646−85−7  Zinc Chloride

ACGIH TLV  1 mg/m3
OSHA PEL  1 mg/m3

10−25  12125−02−9  Ammonium Chloride

ACGIH TLV  10 mg/m3
OSHA PEL  10 mg/m3

400 F (204 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 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
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

BOILING POINT: N/A
SPECIFIC GRAVITY (H20 = 1): 0.98
VAPOR PRESSURE (mm Hg): <0.01 @ 68 F (20 C)
MELTING POINT: 120−150 F (52−66 C)
VAPOR DENSITY (AIR = 1): N/A
EVAPORATION RATE (ETHYL ACETATE = 1): N/A
APPEARANCE/ODOR: Tan / Petroleum Odor
SOLUBILITY IN WATER: Insoluble

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

Diethanolamine
Oral-Rat LD50:710 mg/kg
Inhalation-Rat LC50:N/D

Petrolatum
Oral-Rat LD50:N/D
Inhalation-Rat LC50:N/D

Ethanamine Hydrochloride
Oral-Rat LD50:N/D
Inhalation-Rat LC50:N/D

Poly(ethylene oxide)
Oral-Rat LD50:32 g/kg
Inhalation-Rat LC50:N/D

Section 12 −− Ecological Information

ECOLOGICAL DATA
Ingredient Name

Zinc Chloride
Food Chain Concentration Potential None
WATERFOWL TOXICITY N/A
BOD None
Ammonium Chloride

- Food Chain Concentration Potential: None
- WATERFOWL TOXICITY: N/A
- BOD: N/A
- AQUATIC TOXICITY: 7.2 ppm/96 hr/medium bluegill/TLM

Diethanolamine

- Food Chain Concentration Potential: N/D
- WATERFOWL TOXICITY: N/D
- BOD: 10%
- AQUATIC TOXICITY: 6 ppm/96 hr/sunfish TLm

Petrolatum

- Food Chain Concentration Potential: None
- WATERFOWL TOXICITY: N/D
- BOD: N/D
- AQUATIC TOXICITY: N/D

Ethanolamine Hydrochloride

- Food Chain Concentration Potential: None
- WATERFOWL TOXICITY: N/D
- BOD: N/D
- AQUATIC TOXICITY: N/D

Poly(ethylene oxide)

- Food Chain Concentration Potential: None
- 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

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<tr>
<th>Ingredient Name</th>
<th>SARA 313</th>
<th>TSCA Inventory</th>
<th>CERCLA RQ</th>
<th>RCRA Code</th>
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<td>Zinc Chloride</td>
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<td>1000 lbs.</td>
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<td>Ammonium Chloride</td>
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<td>Diethanolamine</td>
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<td>Petrolatum</td>
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<td>Ethanolamine Hydrochloride</td>
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<td>Poly(ethylene oxide)</td>
<td>No</td>
<td>Yes</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

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