SDS 0656

______ Section 1 -- PRODUCT AND COMPANY IDENTIFICATION HMIS CODES PRODUCT NAME Health Nokorode Regular Paste Flux Flammability Reactivity PRODUCT CODES PPI 14000, 14003, 14010, 14020, 14030 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 USA Houston, Texas 77055 USA (703)527-3887 International DATE OF VALIDATION TECHNICAL SERVICE TELEPHONE NO. January 23, 2015 (800)231-3345 or (713)263-8001 DATE OF PREPARATION May 2, 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 ______ ENVIRONMENTAL HAZARDS Hazardous to the Aquatic Environment: Not Classified Acute aquatic toxicity: Not Classified Chronic aquatic toxicity: Not Classified Bioaccumulation potential: Not Classified Rapid degradability: 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: 10-25

CAS#: 7646-85-7 EC#: 231-592-0

INGREDIENT: Ammonium Chloride PERCENTAGE BY WEIGHT: 10-25

CAS#: 12125-02-9 EC#: 235-186-4

INGREDIENT: Petrolatum PERCENTAGE BY WEIGHT: 70-90

CAS#: 8009-03-8 EC#: 232-373-2

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

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

INGREDIENT UNITS

Zinc Chloride

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

Ammonium Chloride

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

Petrolatum

ACGIH TLV N/D OSHA PEL N/D

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/A SPECIFIC GRAVITY (H20 = 1): 1.06

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

VOLATILE ORGANIC COMPOUNDS (VOC) Content

(Theoretical Percentage By Weight): 0% or (0 g/L)

Flash POINT >400 F (204 C) SETA CC

LOWER EXPLOSION LIMIT N/D UPPER EXPLOSION LIMIT N/D

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

Petrolatum

Oral-Rat LD50:N/D

Inhalation-Rat LC50:N/D

Section 12 -- Ecological Information

ECOLOGICAL DATA

Ingredient Name

Zinc Chloride

Food Chain Concentration Potential None WATERFOWL TOXICITY N/A None

AQUATIC TOXICITY: 7.2 ppm/96 hr/medium bluegill/TLm

Ammonium Chloride

| Petrolatum | WATERFOWL TOXICITE BOD AQUATIC TOXICITY: | 6 ppm/96 hr/sunfish atration Potential | None N/A N/A TLm N/D N/D N/D N/D 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: OCEAN (IMDG): AIR (IATA): WHMIS (CANADA): | Non-Regulated Non-Regulated | | |
| Section 15 REGULATORY INFORMATION | | | |
| REGULATORY DATA Ingredient Name | | | |
| Zinc Chloride | | | |
| | SARA 313 TSCA Inventory CERCLA RQ RCRA Code | Yes Yes 1000 lb. | |
| Ammonium Chlor | | N/A | |
| | SARA 313 | No | |
| | TSCA Inventory | | |
| | CERCLA RQ | N/A | |
| Petrolatum | RCRA Code | N/A | |
| recroracum | SARA 313 | No | |
| | | Yes | |
| | CERCLA RQ | N/A | |
| | RCRA Code | N/A | |
| Section 16 OTHER INFORMATION | | | |
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