SAFETY DATA SHEET

SDS 0426

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION ______ HMIS CODES PRODUCT NAME Health Nokorode Aqua Flux Flammability Reactivity PPI PRODUCT CODES 74044, 74046, 74047, 74060 CHEMICAL FAMILY Organic/Inorganic 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 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 **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 eve 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. Eve 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: Ammonium Chloride
PERCENTAGE BY WEIGHT: <10

CAS#: 12125-02-9

EC#: 235-186-4

INGREDIENT: Ethanolamine hydrochloride

PERCENTAGE BY WEIGHT: <10

CAS#: 2002-24-6 EC#: 217-900-6

INGREDIENT: Paraffinic Oil PERCENTAGE BY WEIGHT: <10

CAS#: 64742-01-4 EC#: 265-101-6

INGREDIENT: Petroleum Deriviatives

PERCENTAGE BY WEIGHT: <10

CAS#: 12794-56-8 EC#: 246-771-9

INGREDIENT: Polyethylene-polypropylene glycol

PERCENTAGE BY WEIGHT: <10

CAS#: 9003-11-6

EC#: N/D

THERED TENT 101 and the

INGREDIENT: Glycerine
PERCENTAGE BY WEIGHT: <10

CAS#: 56-81-5 EC#: 200-289-5 ______

INGREDIENT: Polyethylene glycol octylphenyl ether

PERCENTAGE BY WEIGHT: <10

CAS#: 9036-19-5

EC#: N/D

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

Ammonium Chloride

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

Ethanolamine hydrochloride

ACGIH TLV N/D OSHA PEL N/D

Paraffinic Oil

ACGIH TLV N/D OSHA PEL N/D

Petroleum Deriviatives

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ACGIH TLV
              N/D
   OSHA PEL
              N/D
Polyethylene-polypropylene glycol
   ACGIH TLV
            N/D
   OSHA PEL
              N/D
Glycerine
   ACGIH TLV
              N/D
   OSHA PEL
              N/D
Polyethylene glycol octylphenyl ether
   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):
                              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
Flash POINT
                              >400 F (204 C) SETA CC
LOWER EXPLOSION LIMIT
                              N/D
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 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
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Ammonium Chloride
                 Oral-Rat LD50:1650 mg/kg
                 Inhalation-Rat LC50:N/D
  Ethanolamine Hydrochloride
                 Oral-Rat LD50:N/D
                 Inhalation-Rat LC50:N/D
  Paraffinic Oil
                 Oral-Rat LD50:N/D
                 Inhalation-Rat LC50:N/D
  Petrolatum Deriviatives
                 Oral-Rat LD50:N/D
                 Inhalation-Rat LC50:N/D
  Polyethylene-polypropylene glycol
                 Oral-Rat LD50:N/D
                 Inhalation-Rat LC50:N/D
  Glycerine
                 Oral-Rat LD50: 12600 mg/kg
                 Inhalation-Rat LC50: >570 mg/m3/1H
  Polyethylene glycol octylphenyl ether
                 Oral-Rat LD50:4190 mg/kg
                 Inhalation-Rat LC50:N/D
______
          Section 12 -- Ecological Information
ECOLOGICAL DATA
Ingredient Name
  Ammonium Chloride
                 Food Chain Concentration Potential
                                                        None
                 WATERFOWL TOXICITY
                                                        N/A
                 BOD
                                                        N/A
                 AQUATIC TOXICITY: 6 ppm/96 hr/sunfish TLm
   Ethanolamine Hydrochloride
                 Food Chain Concentration Potential
                                                        N/D
                 WATERFOWL TOXICITY
                                                        N/D
                 BOD
                                                        N/D
                 AOUATIC TOXICITY:
                                                        N/D
   Paraffinic Oil
                 Food Chain Concentration Potential
                                                        None
                 WATERFOWL TOXICITY
                                                        N/D
                 BOD
                                                        N/D
                 AQUATIC TOXICITY:
                                                        N/D
   Petrolatum Deriviatives
                 Food Chain Concentration Potential
                                                        None
                 WATERFOWL TOXICITY
                                                        N/D
                 BOD
                                                         N/D
                 AQUATIC TOXICITY:
                                                        N/D
   Polyethylene-polypropylene glycol
                 Food Chain Concentration Potential
                                                        None
                 WATERFOWL TOXICITY
                                                        N/D
                 BOD
                                                        N/D
                 AQUATIC TOXICITY:
                                                        N/D
   Glycerine
                 Food Chain Concentration Potential
                                                        None
                 WATERFOWL TOXICITY
                                                         N/D
                 BOD
                                                         N/D
                 AQUATIC TOXICITY:
                                                         N/D
   Polyethylene glycol octylphenyl ether
                 Food Chain Concentration Potential
                                                         None
                 WATERFOWL TOXICITY
                                                         N/D
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www.rectorseal.com/web-media/Nokorode-Aqua-Flux.html
5/11/2016
                BOD
                                                   N/D
                AOUATIC TOXICITY:
   Section 13 -- DISPOSAL CONSIDERATIONS
 Waste Classification: Non-regulated solid waste
                     Approved landfill
 Disposal Method:
 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
                Non-Regulated
 DOT:
                Non-Regulated
 OCEAN (IMDG):
 AIR (IATA):
                Non-Regulated
 WHMIS (CANADA): Non-Regulated
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          Section 15 -- REGULATORY INFORMATION
 REGULATORY DATA
 Ingredient Name
    Ammonium Chloride
                 SARA 313
                                No
                 TSCA Inventory
                                Yes
                 CERCLA RQ
                                N/A
                 RCRA Code
                                N/A
    Ethanolamine Hydrochloride
                 SARA 313
                                Yes
                 TSCA Inventory
                                Yes
                 CERCLA RQ
                                N/A
                 RCRA Code
                                N/A
    Paraffinic Oil
                 SARA 313
                                No
                 TSCA Inventory
                                Yes
                 CERCLA RQ
                                N/A
                 RCRA Code
                                N/A
    Petrolatum Deriviatives
                 SARA 313
                                No
                 TSCA Inventory
                                Yes
                 CERCLA RO
                                N/A
                 RCRA Code
                                N/A
    Polyethylene-polypropylene glycol
                 SARA 313
                                No
                 TSCA Inventory
                                Yes
                 CERCLA RO
                                N/A
                 RCRA Code
                                N/A
    Glycerine
                 SARA 313
                                No
                 TSCA Inventory
                                Yes
                 CERCLA RQ
                                N/A
                 RCRA Code
                                N/A
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CALIFORNIA PROPOSITION 65 This product contains a chemical known to the state of California to cause

Yes

N/A

Polyethylene glycol octylphenyl ether **SARA 313**

CERCLA RQ

RCRA Code

TSCA Inventory

cancer and/or birth defects or reproductive harm.

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