SDS 0255

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Section 1 -- PRODUCT AND COMPANY IDENTIFICATION
                                                     HMIS CODES
  PRODUCT NAME
                                                   Health
    Con-Coil
                                                   Flammability
                                                                0
                                                   Reactivity
                                                                  0
  PRODUCT CODES
                                                   PPI
    82622, 82624, 82628
 CHEMICAL FAMILY
    Inorganic Acids
 USE
    Condenser Coil Cleaner
 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
    July 30, 2014
 Section 2 -- HAZARDS IDENTIFICATION
 Emergency Overview
 OSHA Hazards
 Target Organ Effect, Toxic by inhalation., Highly toxic by ingestion, Highly
 toxic by skin absorption, Corrosive
 Target Organs
 Liver, Kidney
 GHS Classification
 Acute toxicity, Oral (Category 2)
 Acute toxicity, Inhalation (Category 2)
 Acute toxicity, Dermal (Category 1)
 Skin corrosion (Category 1A)
Serious eye damage (Category 1)
 ______
                            GHS Label elements, including precautionary statements
Pictogram: Corrosive, Toxic
Signal word: Danger
Hazard statement(s)
H300 + H310 Fatal if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.
H330 Fatal if inhaled.
Precautionary statement(s)
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284 Wear respiratory protection.
P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.
SUMMARY OF ACUTE HAZARDS
  Hydrofluoric acid is extremely irritating and corrosive to skin and mucous
membranes. Speed in moving exposed personnel from contaminated area and in
removing HF from skin or eyes is of primary importance. First aid must be
started immediately, within seconds, in all cases of contact with hydrofluoric
acid in any form. Inhalation of the vapor may cause ulcers of the upper
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respiratory tract. Concentrations at 50 to 200 ppm are dangerous. Hydrofluoric acid produces burns, which are slow in healing. The subcutaneous tissue may be affected, becoming blanched and bloodless. Gangrene of the affected areas may follow.

SYMPTOMS OF OVEREXPOSURE BY EYE OR SKIN CONTACT, INHALATION, OR INGESTION:
Conjunctivitis, corneal burns; severe skin burns with ulceration; pain behind the breastbone, cough, spitting blood, dyspnea, difficult breathing, bronchopneumonia, cyanosis, shock, muscle spasms, convulsions, jaundice, oliguria, alburninuria, hematuria, nausea, vomiting, abdominal pain, diarrhea; burns and corrosion of mouth, esophagus, stomach and small bowel. Inhalation over exposure may cause lung damage and pulmonary edema. Toxicity from pulmonary absorption of fluoride ion may develop in the liver and kidneys.

SUMMARY OF CHRONIC HAZARDS

Possible mutagen. Respiratory ulcers may occur. Skin injuries may result in gangrene.

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: Phosphoric Acid PERCENTAGE BY WEIGHT: 12.29

CAS NUMBER: 7664-38-2

EC# : 2316332

INGREDIENT: Hydrofluoric Acid

PERCENTAGE BY WEIGHT: 9.69 CAS NUMBER: 7664-39-3

EC# : 231-634-8

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INGREDIENT: Glycol Butyl Ether PERCENTAGE BY WEIGHT: 1.40

CAS NUMBER: 111-76-2

Section 4 -- FIRST AID MEASURES

If INHALED: Exposed individuals should be carried at once into an uncontaminated atmosphere. Even in the absence of symptoms, a physician should be called immediately. If breathing has stopped, begin artificial respiration. If inhalation equipment and trained attendant are available, oxygen administration should be started at ounce. Patient should remain quiet - preferably lying down and kept warm and comfortable. As soon as possible, patient should be given 2.5% to 3% calcium gluconate solution by inhalation, preferably by intermittent positive pressure breathing (IPPB) using a nebulizer, or by nebulizer alone. The patient should be watched carefully for edema of the upper airway with respiratory obstruction. Delayed pulmonary edema is likely in patients with burns of the skin on the face or neck. If pulmonary edema develops, the patient should be placed in IPPB with positive end - expiratory pressure (PEEP). The administration of respiratory care should be closely supervised and performed by qualified personnel. Stimulants should not be given unless ordered by a physician. Under no circumstances should a patient be permitted

If on SKIN: Workers who have had contact with hydrofluoric acid should be subjected immediately to a drenching shower of water. The clothing should be removed as rapidly as possible, even while the victim is in the shower, and medical assistance obtained immediately. It is essential that the exposed area be washed with copious amounts of water for a sufficient period of time to remove all hydrofluoric acid from the skin (5 Minutes). Calcium gluconate gel (2.5%) should be rubbed in continuously until pain has completely subsided. Personnel who apply the gel should be sure to wear rubber gloves

to prevent skin contamination with the HF. Calcium gluconate gel is the preferred treatment but an alternative treatment is using an iced aqueous or alcoholic solution, 0.13% (1:750) of benzalkonium chloride (zephiran chloride); and iced 70% alcohol solution; or and ice-cold saturated solution of magnesium sulfate (epsom salt) should be applied for at least 30 minutes. If the burn is in such an area that it is impractical to immerse the part, then the iced solution should be applied with saturated compresses, which should be changed at least every two minutes. The physician should be available by then to administer further treatment before completion of the iced solution treatment. However, if a physician is not available by that time, the treatment with one of the iced solutions should be continued for two to four hours. In cases of overexposure due to HF, as in skin burns of greater than approximately 25 sq. inches in area, hypocalcemia may be present. Therefore, systemic administration of calcium gluconate may be necessary. Frequent monitoring of serium calcium, renal and hepatic functions are necessary.

If in EYES: If even minute quantities of hydrofluoric acid enter the eyes, they should be immediately irrigated with running water for 5 minutes. The eyelids should be held apart during the irrigation to insure contact of water with all accessible tissue of the eyes and lids. Immediately following irrigation with water, a 1% calcium gluconate solution should be used to wash the eyes thoroughly for 5-10 minutes, and then instilled every 2-3 hours as drops. A physician, preferably an eye specialist, should be called in at once. No oils or oily ointment should be used unless ordered by the physician.

If SWALLOWED: Swallowing of hydrofluoric acid causes burns of the mucous membrane of the mouth, throat, esophagus and the stomach. The patient should be encouraged to immediately drink a large amount of water or milk with added milk of magnesia. Do not induce vomiting. Call a physician immediately.

Section 5 -- FIRE FIGHTING MEASURES

EXTINGUSING MEDIA

Use agents appropriate for surrounding fires.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus (SCBA) and other protective clothing. Hazardous decomposition products possible (see Section 10). Evacuate immediate area. UNUSUAL FIRE AND EXPLOSION HAZARDS: Material can generate explosive hydrogen gas on contact with certain metals and reacts violently with water. Runoff from fire control may cause pollution. Neutralize runoff with sodium bicarbonate.

Section 6 -- ACCIDENTAL RELEASE MEASURES

_______ STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Evacuate area and keep upwind until gas has dispersed. Dike spill. Dilute with water fog (direct application of alkali may cause violent splattering). Neutralize with sodium bicarbonate. Persons not wearing protective equipment and clothing should be restricted from areas of spills or leaks until clean up has been completed.

Section 7 -- HANDLING AND STORAGE

_______ PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container closed and upright when not in use. Do not store near heat, sparks, or open flames. This product will attack glass, concrete and certain metals. Store only in plastic containers. DO NOT USE METAL CANS.

OTHER PRECAUTIONS: Refrain from splashing product when pouring. Avoid all contact with skin or clothing. Empty containers may contain residues and vapors. KEEP OUT OF REACH OF CHILDREN.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

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INGREDIENT
                  UNITS
 Phosphoric Acid
     ACGIH TLV
                1 mg/m3
     OSHA PEL
                1 mg/m3
 Hydrofluoric Acid
     ACGIH TLV
                3 ppm
     OSHA PEL
                3 ppm
     OSHA STEL
                6 ppm
 Glycol Butyl Ether
    ACGIH TLV
                25 ppm
    OSHA PEL
                25 ppm
 RESPIRATORY PROTECTION (SPECIFY TYPE): In confined poorly ventilated areas,
 use NIOSH/MSHA approved air purifying or supplied air purifying or supplied
 air respirators.
 VENTILATION - LOCAL EXHAUST: Acceptable
 SPECIAL: N/A
 MECHANICAL (GENERAL): Acceptable
 OTHER: N/A
 PROTECTIVE GLOVES: Wear acid resistant gloves (neoprene, PVC, butyl rubber).
EYE PROTECTION: Full-face shield and chemical splash goggles (ANSI Z-87.1 or
 equivalent).
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Acid resistant vinyl or polyethylene
 coated coveralls.
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:
                               >212 @ 760mm Hg
SPECIFIC GRAVITY (H20 = 1):
                               1.09
VAPOR PRESSURE (mm Hg):
                               17 @ 68 F (20 C)
MELTING POINT:
                              N/A
VAPOR DENSITY (AIR = 1):
                              N/A
EVAPORATION RATE (ETHYL ACETATE = 1): <1
APPEARANCE/ODOR:
                               Clear pink liquid / irritating odor
SOLUBILITY IN WATER:
                              Soluble
VOC LEVEL: <10 g/L per SCAQMD Test Method 316A
FLASH POINT
LOWER EXPLOSION LIMIT
                              N/D
UPPER EXPLOSION LIMIT
                              N/D
Section 10 -- STABILITY AND REACTIVITY
STABILITY: Stable
CONDITIONS TO AVOID: Uncontrolled contact with water and active metals.
Excessive heat will cause pressure build-up in container.
INCOMPATIBILITY (MATERIALS TO AVOID): Alkalies, most metals, cyanides,
sulfides, glass and ceramics.
HAZARDOUS DECOMPOSITION PRODUCTS: Fluorides and hydrogen gas on contact with
certain metals; these fumes can be highly corrosive.
HAZARDOUS POLYMERIZATION: Will not occur, however, non-hazardous endothermic
polymerization may occur in both the liquid and gaseous phases.
Section 11 -- TOXICOLOGY INFORMATION
______
CHRONIC HEALTH HAZARDS
  No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.
TOXICOLOGY DATA
Ingredient Name
______
  Phosphoric Acid
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Oral-Rat LD50:1530 mg/kg Inhalation-Rat LC50:N/D

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Oral-Rat LD50:5045 mg/kg
             Rat LC50:966 PPM/1H
   Glycol Butyl Ether
             Oral-Rat LD50:470 mg/kg
             Inhalation-Rat LC50:2900 mg/m3
 Section 12 -- Ecological Information
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 ECOLOGICAL DATA
 Ingredient Name
 -----
   Phosphoric Acid
             Food Chain Concentration Potential
                                         None
             WATERFOWL TOXICITY
                                         N/A
             ROD
                                         None
             AQUATIC TOXICITY
                                 138 ppm/24 hr/mosquito fish/TLm
  Hydrofluoric Acid
             Food Chain Concentration Potential
                                         None
             WATERFOWL TOXICITY
                                         N/A
                                         None
             AQUATIC TOXICITY
                                  60 ppm/fish/lethal
  Glycol Butyl Ether
             Food Chain Concentration Potential
             WATERFOWL TOXICITY
                                         N/A
             BOD
                                         26%
             AQUATIC TOXICITY 1000 ppm/24 hr/brine shrimp/TLm
Section 13 -- DISPOSAL CONSIDERATIONS
Waste Classification: Corrosive(D002)
Disposal Method: Neutralization
RCRA classified hazardous waste. Dispose of absorbed materials and liquid
waste in accordance with all local, state and federal regulations.
Section 14 -- TRANSPORTATION INFORMATION
______
DOT: UN3264, Corrosive Liquid, Acidic, Inorganic, N.O.S. (Hydrofluoric and
 Phosphoric Acid), Class 8, PG II, ERG#154
OCEAN (IMDG): UN3264, Corrosive. Liquid, Acidic, Inorganic, N.O.S. (Hydrofluoric
 and Phosphoric Acid), Class 8, PG II, EMS-No: F-A, S-B
AIR (IATA): UN3264, Corrosive Liquid, Acidic, Inorganic, N.O.S. (Hydrofluoric and
 Phosphoric Acid), Class 8, PG II, ERG#154
WHMIS (CANADA): Class E
Section 15 -- REGULATORY INFORMATION
REGULATORY DATA
Ingredient Name
Phosphoric Acid
            SARA 313
                        Yes
            TSCA Inventory
                        Yes
            CERCLA RQ
                        5,000 lb.
            RCRA Code
                        N/A
 Hydrofluoric Acid
            SARA 313
                        Yes
            TSCA Inventory
                        Yes
            CERCLA RQ
                        100 lb.
            RCRA Code
                        U134
 Glycol Butyl Ether
            SARA 313
                        Yes
            TSCA Inventory
                        Yes
            CERCLA RQ
                        N/A
            RCRA Code
                        N/A
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Hydrofluoric Acid

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