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FRP

MATERIAL SAFETY DATA SHEET

PAGE 1 TEKTRONIX PN 252-0120-00

HMIS CODES: H

PRODUCT CODE: 92-012

92-912

PRODUCT NAME: DIELECTRIC FLUID F-114

TYPE OF PRODUCT: CHLOROFLUOROCARBON

BOT CLASS: AEROSOLS, 2.2, UN 1950, LIMITED QUANTITY

MANUFACTURED BY : RUDD COMPANY, INC.

1638 15th AVE. W., SEATTLE, WA., 98119

24 HOUR EMERGENCY PHONE: INFORMATION PHONE: 288-284-5488 (SPILL, LEAK, FIRE, ACCIDENT)

CALL CHEMTREC 1-800-424-9300

NAME OF PREPARER: RUDD COMPANY, INC. DATE PREPARED/REVISED: 07/26/1993

REASON REVISED: CHANGED DOT CLASS, SECTION III, SECTION IV.

BERNESSEE SECTION IIA - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION -----

WEIGHT --- COOLPATIONAL DIPOSURE LIMITS -- VAPOR PROF CSHA PEL .. ACGIH TLV min HG 🛡 ' OTHER PERCENT (AS NUMBER DESCRIPTION 1621 0 7666 mg/m3 1006 ppm 1000 ppn 100 (19976-14-2 DICHLOROTETRAFLUORDETHANE wearELs represent lowered 1988 limits and may not be enforceable by Federal CS-A.

CALIFORNIA SARA TITLE III CARCINOGEN Pes I II 322 313 NTP TARC COMM (AS NUMBER DESCRIPTION X ×

19678-14-2 DICHLORDTETRAFLLORDETHANE

MERENERE SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS ---WT/GAL: 12.23(WITH PROP: 12.23) 38 DEG F. 38 to BOILING RANGE: EVAPORATION RATE: FASTER THAN

VAPOR DENSITY: HEAVIER THAN AIR OGR/LT) (n-Butyl ecetate-MEDIAN) .eelB/GL( CALCULATED V.O.C.:

SOLUBILITY IN WATER: NON-SOLUBLE

APPEARANCE AND ODOR:

CLEAR COLORLESS LIQUID, SLIGHT ETHEREAL ODOR. MANAGEMENT SECTION IV - FIRE AND EXPLOSION HAZARD DATA ------

DSHA FLAMMABILITY CLASS: N/A

BULK PRODUCT FLASH POINT: N/A DEG F. METHOD USED: N/A

BULK PROPELLANT FLASH POINT: N/A DEG F.

PACKAGED PRODUCT FLAME EXTENSION: 66

FLAMMABLE LIMITS IN AIR BY VOLUME: - LOWER:

UPPER:

EXTINGUISHING MEDIA:

FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES: Evecuate all unnecessary personnel. Use full protective equipment, including self-contained breathing apparatus. Use water spray, preferably feg. to cool closed containers to prevent pressure build-up and possible explosion. Do not allow product or runoff from fire control to enter storm or sanitary newers, lakes, rivers, streams, or waterways.

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UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents under pressure. Exposure to heat or prolonged exposure to sun may cause bursting.

""""""" DATA -----

HAZARDOUS DECOMPOSITION PRODUCTS: At high temperatures may form hydrochloric and hydrofluoric acide,

INCOMPATIBILITY (MATERIALS TO AVOID): Alkaline earth metals, powdered aluminum and zinc.

STABILITY: Stable.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: High temperature and humidity, ignition source, vapor build-up.

PRIMARY ROUTE(\*) OF EXPOSURE: Inhalation, skin contact.

AGUTE EFFECTS FROM SHORT TERM EXPOSURE:
May cause headcahe, dizziness, naused, weakness, shortness of breath, loss of coordination and irregular heartbeat. Exposure to extremely high vapor concentrations may cause unconsciousness and asphyxiation. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
EYES: Contact with liquid or vapors causes irritation (redness, watering, itching, stinging, blurred vision).
SKIN: Contact causes irritation (dryness, itching, oracking, rash and swelling).
Direct contact with propellant may cause frostbite.
SKIN ABSORPTION: None known.

CHRONIC EFFECTS FROM LONG TERM/REPEATED EXPOSURE: Long-term or repeated overexposure, without proper ventilation or personal protection, may cause damage to:

OTHER: N/A

CARCINOGEN DATA: N/A

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Respiratory tract irritation; nausea; skin and eye disorders; sensitization to chemical substances.

SWALLOWING: In case of accidental ingestion, cail Paison Center, Emergency Room or Physician immediately.

INHALATION: Remove from exposure to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Keep person marm and quiet. Get medical attention immediately.

EYE: Immediately flush with plenty of water for 15 minutes, while lifting upper and lower eyelids. Get medical attention.

SKIN: Wash with soap and water. Remove and also contaminated ciothing and shoes. Get medical attention if irritation persists.

OTHER: Have Moterial Safety Data Sheet available, if possible, when calling Poison Center, Emergency Room or Physician.

RESPIRATORY PROTECTION: OUTDOORS OR OPEN AREAS: If necessary, because of wind, etc use mechanical filter respirator or particle mask to avoid breathing spray mists. ENCLOSED OR RESTRICTED VENTILATION AREAS: Use NIQSH approved cartridge respirator to keep vapor/mist levels of hozardous ingredients (listed in Section II) below the occupational exposure limits (PEL and TLV). If exposure levels are unknown, or limits exceeded, a full facepiece sir-purifying cartridge respirator is recommended. Use filters to avoid breathing spray particles. Fallow respirator manufacturer's instructions for use.

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VENTILATION: INDOOR OR ENCLOSED AREAS: Provide general mechanical ventilation or local exhaust to keep vapor concentrations below the PELs and TLVs in Section II and Lower Flammable Limits in Section IV.

HAND PROTECTION: When necessary, wear impermeable gloves to prevent skin contact. Consult safety equipment supplier for specific recommendation of construction material.

EYE PROTECTION: Wear safety glasses, with side shields, designed to protect eyes against liquid splash and mists. Note: Contact lenses may contribute to the severity of an eye injury and should not be worn when working with chemicals. OTHER PROTECTIVE EQUIPMENT: When necessary, wear protective clothing to avoid skin contact with liquid and overspray.

WORK/HYGIENIC PRACTICES: Eye washes and safety showers are recommended in the workpides. Wash hands after using and before eating, drinking or using tobacco products. Thoroughly clean contaminated clothing and shoes before reuse. Periodically monitor appears to hazardous ingredients listed in Section II and review permissible limits.

------ SECTION IX - SPILL OR LEAK PROCEDURES ----

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Eliminate ignition sources and ventilate area. Evacuate unnecessary personnel. Wear protective equipment. Dike and contain spill with inert material. Transfer liquid to containers for disposal or recovery. Prevent material from entering storm or sanitary sewers and open bodies of water.

WASTE DISPOSAL: Waste material and empty containers must be disposed of in accordance with all local, state and federal environmental control regulations. Use only approved waste management facilities.

HANDLING PRECAUTIONS: Use proper methods of ventilation to prevent vapor build—up. Avoid apraying hot surfaces. Avoid breathing vapors and spray mists. Avoid contact with uyes and skin. Do not take internally. Use adequate methods of ventilation, respiratory and personal protection equipment. Do not heat, puncture or incinerate containers. Contents are under pressure and may contain vapors, even when empty. Do not remove or deface label.

SHIPPING AND STORAGE PRECAUTIONS: Contents under pressure. Do not store above 120 degrees F. or permit prolonged exposure to sunlight. Protect containers from damage. Store in buildings or great designed and protected for storage of derosols. Keep out of reach of children.

OTHER PRECAUTIONS: For industrial use only.

DISCLAIMER: THE INFORMATION CONTAINED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE RELIABLE. TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ALL INFORMATION IS ACCURATE AND IS PROVIDED IN GOOD FAITH. HOWEVER, NO GUARANTEE OF ACCURACY IS MADE OR IMPLIED.