

RUDD COMPANY INC. -- 92-012 DIELECTRIC FLUID F-114 -- 6830-00-242-0803

=====
Product Identification
=====

Product ID:92-012 DIELECTRIC FLUID F-114

MSDS Date:07/26/1993

FSC:6830

NIIN:00-242-0803

MSDS Number: BJXJP

=== Responsible Party ===

Company Name:RUDD COMPANY INC.

Address:1630 15TH AVENUE WEST

City:SEATTLE

State:WA

ZIP:98119-2717

Country:US

Info Phone Num:206-284-5400

Emergency Phone Num:206

-284-5400

Chemtec Ind/Phone:(800)424-9300

CAGE:02958

=== Contractor Identification ===

Company Name:RUDD COMPANY INC.

Address:1630 15TH AVENUE WEST

City:SEATTLE

State:WA

ZIP:98119-2717

Country:US

Phone:206-284-5400/800-424-9300(CHEMTREC)

CAGE:02958

Company Name:TREVOSE INDUSTRIAL PRODUCTS

Address:RURAL ROUTE NO. 1 FIVE POINTS ROAD

Box:446

City:MACUNGIE

State:PA

ZIP:18062

Country:US

Phone:215-679-4505

CAGE:51557

=====
Composition/Information on Ingredients
=====

Ingred Name:D

ICHLOROTETRAFLUOROETHANE (SARA 313)

CAS:76-14-2

RTECS #:K11101000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9596

Ozone Depleting Chemical:1

=====
===== Hazards Identification =====

LD50 LC50 Mixture:NONE PROVIDED BY MFR

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Health Hazards Acute and Chronic:INTERNAL MISUSE BY DELIBERATELY
CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.
ACUTE

: EYE: CONTACT WITH LIQUID OR VAPORS CAUSES IRRITATION. SKIN:
CONTACT CAUSES IRRITATION.

Effects of Overexposure:HEADACHE, DIZZINESS, NAUSEA, WEAKNESS,
SHORTNESS OF BREATH, LOSS OF COORDINATION, IRREGULAR HEARTBEAT,
EXPOSURE TO HIGH VAPOR CONCENTRATIONS MAY CAUSE UNCONSCIOUSNESS AND
ASPHYXIATION. EYE: REDNESS, WATERING, ITCHING, STINGING, BLURRED
VISION. SKIN: DRYNESS, ITCHING, CRACKING, RASH AND SWELLING. DIRECT
CONTACT WITH PROPELLANT MAY CAUSE FROSTBITE.

Medical Cond

Aggravated by Exposure:RESPIRATORY TRACT IRRITATION,
NAUSEA, SKIN AND EYE DISORDERS, SENSITIZATION TO CHEMICAL
SUBSTANCES.

=====
===== First Aid Measures =====

First Aid:SWALLOWING: IN CASE OF ACCIDENTAL INGESTION. CALL POISON
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
WARM AND QUIET.

ITE. 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 CLEAN CONTAMINATED CLOTHING AND SHOES. GET
MEDICAL ATTENTION IF IRRITATION PERSISTS.

=====
===== Fire Fighting Measures =====

Flash Point:NA

Autoignition Temp:Autoignition Temp Text:NP

Lower Limits:NONE PROVIDED

Upper Limits:NONE PROVIDED

Extinguishing

g Media:FOAM, CO2, DRY CHEMICAL, WATER FOG.

Fire Fighting Procedures:EVACUATE ALL UNNECESSARY PERSONNEL.USE FULL PROTECTIVE EQUIPMENT, INCLUDING SELF CONTAINED BREATHING APPARATUS.USE WATER SPRAY,PREFERABLY FOG,TO COOL CONTAINERS TO PREVENT PRESSURE BUILDUP & POSSIBLE EXPLOSION.DON'T ALLOW PRODUCT OR RUNOFF FROM FIRE CONTROL TO ENTER STORM OR SANITARY SEWERS,LAKES,STREAMS,OR WATERWAYS

Unusual Fire/Explosion Hazard:CONTENTS UNDER PRESSURE. EXPOSURE TO HEAT OR PROLONGED EXPOSURE TO SUN MAY CAUSE BURSTING.

===== Accidental Release Measures =====

Spill Release Procedures: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.

Neutralizing Agent:NONE PROVIDED BY MFR

===== H
Handling and Storage =====

Handling and Storage Precautions:HANDLING: USE PROPER METHODS OF VENTILATION TO PREVENT VAPOR BUILD-UP. AVOID SPRAYING HOT SURFACES. AVOID BREATHING VAPORS AND SPRAY MISTS. AVOID CONTACT WITH EYES AND SKIN. DO NOT TAKE INTERNALLY. USE ADEQUATE METHODS OF VENTILATION, RESPIRATORY AND PERSONAL PROTECTION EQUIPMENT. DO NOT HEAT,
Other Precautions:NONE PROVIDED BY MFR

===== Exposure Controls/Personal Protection =====

Respiratory Protection:OUTDOOR/OPEN AREAS: IF NECESSARY, BECAUSE OF WIND, ETC USE MECHANICAL FILTER RESPIRATOR OR PARTICLE MASK TO AVOID BREATHING SPRAY MISTS. ENCLOSED/RESTRICTED AREAS: USE NIOSH APPROVED CARTRIDGE RESPIRATOR TO KEEP VAPOR/MIST LEVELS OF HAZARDOUS INGREDIENTS BELOW THE OCCUPATIONAL EXPOSURE LIMITS (PEL & TLV). IF EXPOSURE LEVELS ARE UNKNOWN, OR LIMITS EXCEEDED, AVOID EXPOSURE.
Ventilation:INDOOR/ENCLOSED AREAS: PROVIDE GENERAL MECHANICAL VENTILATION OR LOCAL EXHAUST

KEEP VAPOR CONCENTRATIONS BELOW THE
PELS AND TLV'S

Protective Gloves:WEAR IMPERMEABLE GLOVES TO PREVENT SKIN CONTACT

Eye Protection:WEAR SAFETY GLASSES WITH SIDE SHIELDS

Other Protective Equipment:CONTACT LENSES MAY CONTRIBUTE TO SEVERITY
OF AN EYE INJURY, AND SHOULD NOT BE WORN WHEN WORKING WITH
CHEMICALS. WHEN NECESSARY, WEAR PROTECTIVE CLOTHING TO AVOID
CONTACT WITH LIQUID AND OVERSPRAY

Work Hygienic Practices:EYEWASHES AND SAFETY SHOWERS ARE RECOMMENDED IN
THE WORKPLACE

WASH HANDS AFTER USING AND BEFORE EATING, DRINKING,
OR USING TOBACCO PRODUCTS. THOROUGHLY CLEAN CONTAMINATED CLOTHING
AND SHOES BEFORE

Supplemental Safety and Health

NONE PROVIDED BY MFR

===== Physical/Chemical Properties =====

HCC:V2

Boiling Pt:=3.3C, 38.F

Melt/Freeze Pt:M.P/F.P Text:NONE PROVIDED BY MFR

Decomp Temp:Decomp Text:NONE PROVIDED BY MFR

Vapor Pres:NONE PROVIDED BY MFR

Vapor Density:>AIR

Spec Gravity:NONE PROVIDED BY MFR

pH:NONE PROVIDED

Viscos

ity:NONE PROVIDED BY MFR

Evaporation Rate & Reference:FASTER THAN BUTYL ACETATE

Solubility in Water:NON-SOLUBLE

Appearance and Odor:CLEAR COLORLESS LIQUID, SLIGHT ETHEREAL ODOR

Percent Volatiles by Volume:NONE PROVIDE

Corrosion Rate:NONE PROVIDED BY MFR

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

ALKALINE EARTH METALS, POWDERED ALUMINUM AND ZINC.

Stability Condition to Avoid:HIGH TEMPERATURE AND HUMIDITY. IGNITION
SOURC

ES, VAPOR BUILDUP.

Hazardous Decomposition Products:AT HIGH TEMPERATURES MAY FORM
HYDROCHLORIC AND HYDROFLUORIC ACIDS.

Conditions to Avoid Polymerization:WILL NOT OCCUR

===== Disposal Considerations =====

Waste Disposal Methods:WASTE MATERIAL AND EMPTY CONTAINERS MUST BE
DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL
ENVIRONMENTAL REGULATIONS. USE ONLY APPROVED WASTE MANAGEMENT
FACILITIES.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.