

RACON INC. -- RACON 114 -- 6830-00-785-3306

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

Product ID:RACON 114

MSDS Date:04/07/1989

FSC:6830

NIIN:00-785-3306

MSDS Number: BHGDY

=== Responsible Party ===

Company Name:RACON INC.

Address:6040 SOUTH RIDGE ROAD

Box:198

City:WICHITA

State:KS

ZIP:67201

Country:US

Info Phone Num:316-524-3245

Emergency Phone Num:415-821-5338 (MEDICAL)

CAGE:EO152

=== Contractor Identifi

cation ===

Company Name:ELF ATOCHEM NORTH AMERICA (FORMERLY RACON INC)

Address:6040 S RIDGE RD

Box:198

City:WICHITA

State:KS

ZIP:67201

Country:US

Phone:CALL COLLECT 415-821-5338

CAGE:2A580

Company Name:RACON INC.

Address:6040 SOUTH RIDGE ROAD

Box:198

City:WICHITA

State:KS

ZIP:67201

Country:US

Phone:316-524-3245

CAGE:EO152

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

Ingred Name:DICHLOROTETRAFLUOROETHANE (SARA III)

CAS:76-14-2

RTECS #:K11101000

Fraction by Wt: 100%

OS

HA PEL:1000 PPM
ACGIH TLV:1000 PPM; 9192
Ozone Depleting Chemical:1

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

LD50 LC50 Mixture:LC50 >50000 PPM

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:PRODUCT IS A MILD IRRITANT. IT WILL
DEFAT & DRY SKIN,POSSIBLY CAUSING DERMATITIS. VAPOR IS HEAVIER THAN
AIR AND CAN CAUSE SUFFOCATION BY REDUCING OXYGEN AVAILABLE FOR
BREAT

HING. IT MAY ALSO PRODUCE FATAL CARDIAC ARRHYTHMIAS.

INTENTIONALLY SNIFFING FLUOROCARBONS FOR THEIR INTOXICATING EFFECTS
HAS LEAD TO HUMAN DEATHS.

Explanation of Carcinogenicity:PRODUCT IS NOT LISTED AS A CARCINOGEN BY
IARC, NTP OR OSHA.

Effects of Overexposure:BREATHING HIGH CONCENTRATIONS OF VAPOR MAY
CAUSE LIGHT-HEADEDNESS, GIDDINESS, SHORTNESS OF BREATH, AND MAY
LEAD TO NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OR DEATH.
LIQUID CAN CAUSE DEFATTING OF TISSUE.

Medical Cond Aggravated by Exposure:SKIN DISEASE - PRODUCT IS A
DEFATTING AGENT AND CAN CAUSE DERMATITIS ON PROLONGED EXPOSURE.
PERSONS WITH PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTIBLE TO
THE EFFECTS OF THIS AGENT.

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

First Aid:EYE:FLUSH W/ WATER 15 MIN HOLD LIDS OPEN SEE A DOCTOR.

SKIN:WASH WITH SOAP & WATER. INHALED:REMOVE TO FRESH AIR. RESTORE
BREATHING, AS NEEDED. DO NOT GIVE EPINEPHRINE OR SIMILAR
DRUGS.

INGESTED:DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL CARE. IF
IRRITATION PERSISTS,OR IS SEVERE,SEE A DOCTOR.

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

Flash Point:NON-FLAMMABLE

Extinguishing Media:USE MEDIA SUITABLE FOR SURROUNDING FIRE.

Fire Fighting Procedures:USE SELF CONTAINED BREATHING APPARATUS AND
PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard:MAY EMIT TOXIC FUMES IN FIRE CONDITIONS.

===== Accidental Release Measu

res =====

Spill Release Procedures:VENTILATE AREA. DO NOT FLUSH INTO SEWERS.
COLLECT ON ABSORBENT MATERIAL AND TRANSFER TO STEEL DRUMS FOR
RECOVERY OR DISPOSAL.

Neutralizing Agent:NONE

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

Handling and Storage Precautions:STORE IN A CLEAN, COOL, DRY AND
WELL-VENTILATED AREA OF LOW FIRE RISK. PROTECT CONTAINERS FROM
PHYSICAL DAMAGE AND KEEP CLOSED.

Other Precautions:TANK-CLEANING PERSONNEL SHOULD USE
ONLY FORMAL TANK

ENTRY PROCEDURE BASED ON RECOGNIZED SAFETY PRINCIPLES. APPLY ALL
SAFETY PRECAUTIONS TO EMPTY CONTAINERS AS THEY MAY CONTAIN PRODUCT
RESIDUES/VAPORS.

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

Respiratory Protection:NONE REQUIRED FOR ADEQUATELY VENTED WORK
STATIONS. FOR ACCIDENTAL OR NON-VENTILATED SITUATIONS, USE A
SELF-CONTAINED BREATHING APPARATUS OR SUPPLIED-AIR RESPIRATOR,
APPROVED BY NIOSH/MSHA.

Ventilation:PROVIDE LOCAL EX
HAUST AT FILLING ZONES AND OTHER OPERATING
SPACES WHERE LEAKAGE IS PROBABLE. MECHANICAL FOR OTHER.

Protective Gloves:BUTYL RUBBER, PVA OR NEOPRENE

Eye Protection:SAFETY GLASSES OR SPLASH GOGGLES

Other Protective Equipment:USE IMPERVIOUS CLOTHING IF THERE IS DANGER
OF REPEATED OR PROLONGED CONTACT WITH LIQUID.

Work Hygienic Practices:USE GOOD CHEMICAL HYGIENE PRACTICE. AVOID
CONTACT. REMOVE AND WASH CLOTHING PROMPTLY UPON CONTAMINATION.

Supplemental Safety and Health
NONE

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

HCC:N1

Boiling Pt:B.P. Text:38F,3.8C

Vapor Pres:16.2 PSIG

Vapor Density:6.1

Spec Gravity:1.46

Solubility in Water:SLIGHT - 0.01%

Appearance and Odor:COLORLESS LIQUID OR VAPOR WITH NO ODOR OR SLIGHT
ETHEREAL ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES
ALKALI AND ALKALI METALS AND REACTIVE METALS.
Stability Condition to Avoid:HEAT

SUCH AS OPEN FLAME AND HOT METAL SURFACES.

Hazardous Decomposition Products:DECOMPOSED BY HIGH TEMPERATURES (OPEN FLAMES, GLOWING METAL SURFACES, ETC.) FORMING HYDROCHLORIC AND HYDROFLUORIC ACIDS.

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

Waste Disposal Methods:DISPOSE I/A/W FEDERAL,STATE,LOCAL REGULATIONS.

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.