

CRC INDUSTRIES, INC. -- 03190A, PF-A PRECISION CLEANER -- 6850-01-411-7394

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

Product ID:03190A, PF-A PRECISION CLEANER

MSDS Date:03/15/2000

FSC:6850

NIIN:01-411-7394

Status Code:A

MSDS Number: CLDHP

=== Responsible Party ===

Company Name:CRC INDUSTRIES, INC.

Address:885 LOUIS DRIVE

City:WARMINSTER

State:PA

ZIP:18974-2869

Country:US

Info Phone Num:215-674-4300/ 800

-521-3168

Emergency Phone Num:(800)424-9300

Resp. Party Other MSDS Num.:CRC #: 429F

Preparer's Name:ADAM M. SELISLER

Chemtrec Ind/Phone:(800)424-9300

CAGE:023V4

=== Contractor Identification ===

Company Name:AMJAY CORP. DBA AMJAY CHEMICALS

Address:11200 WESTHEIMER SUITE 310

Box:218786

City:HOUSTON

State:TX

ZIP:77218-8786

Country:US

Phone:713-492-2000

Contract Num:SP0450-01-C-0613

CAGE:64184

Company Name:CRC INDUSTRIES, INC.

Address:885 LOUIS DRIVE

Box:City:WARMINSTER

State:PA

ZIP:18974-2869

Coun

try:US  
Phone:215-674-4300/ 800-521-3168  
CAGE:023V4

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

Ingred Name:1,1-DICHLORO-1-FLUOROETHANE  
CAS:1717-00-6  
RTECS #:KI0997000  
= Wt:17.  
Other REC Limits:500 PPM  
Ozone Depleting Chemical:2

Ingred Name:1,1,1,2-TETRAFLUOROETHANE  
CAS:811-97-2  
= Wt:15.  
Other REC Limits:1,000 PPM

Ingred Name:PERFLUORO COMPOUND  
CAS:86508-42-1  
= Wt:61.

Ingred Name:PENTANE  
CAS:109-66-0  
RTECS #:RZ9450000  
= Wt:7.  
OSHA PEL:600PPM  
ACGIH TLV:600 PPM  
ACGIH S  
TEL:2210 MG/M3;750 PPM

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHALATION: DIZZINESS,  
LIGHTHEADEDNESS. HIGH LEVELS MAY CAUSE ASPHYXIATION OR CARDIAC  
ARRHYTHMIAS. EYES: IRRITATION. SKIN: IRRITATION, DEFATTING.  
INGESTION: NA. CHRONIC OVEREXPOSURE: SKIN IRRITATION O N REPEATED  
CONTACT.  
Effects of Overexposure:INHALATION: DIZZINESS, LIGHTHEADEDNESS,  
ASPHYXIATION, C

CARDIAC ARRHYTHMIAS. EYES: IRRITATION. SKIN:  
IRRITATION, DEFATTING.

Medical Cond Aggravated by Exposure:IMPAIRED CARDIOVASCULAR FUNCTION  
SUCH AS CARDIAC ARRHYTHMIAS MAY BE SENSITIZED BY INHALATION.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION  
IF NECESSARY. EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15  
MINUTES. SKIN: REMOVE CONTAMINATED CLOTHING AND WASH AREA WITH SOAP  
AND WATER. I

INGESTION: CALL A PHYSICIAN. DO NOT INDUCE VOMITING.

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

Flash Point Method:TCC

Flash Point:NONE

Lower Limits:ND

Upper Limits:ND

Extinguishing Media:WATER FOG, CO2 AND DRY CHEMICAL.

Fire Fighting Procedures:REMOVE CONTAINERS FROM FIRE AREA IF POSSIBLE.  
USE SELF-CONTAINED BREATHING APPARATUS FOR FIRE FIGHTING. AEROSOL  
CANS MAY EXPLODE IF HEATED ABOVE 120 F.

Unusual Fire/Explosion Hazard:HAZARDOUS COMBUSTION PRODUCTS: HALOGE  
NS,  
HALOGEN ACIDS, AND POSSIBLY PHOSGENE.

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

Spill Release Procedures:USUALLY NOT A PROBLEM WITH AEROSOLS. AREA  
SHOULD BE VENTILATED. ABSORBENT SHOULD BE USED TO PICK UP EXCESS  
MATERIAL. ALL USED AND UNUSED PRODUCT SHOULD BE DISPOSED OF IN  
ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

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

Handling and Storage Precautions:STORE IN A COOL, DR  
Y AREA. AEROSOL

CANS MUST BE MAINTAINED BELOW 120F TO PREVENT CANS FROM EXPLODING.

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

Respiratory Protection:USE NIOSH/MSHA COMPLIANT RESPIRATORS OR  
SELF-CONTAINED BREATHING APPARATUS ABOVE EXPOSURE LIMITS. FOLLOW  
OSHA REGULATIONS 29 CFR 1910.134. IF WORKING IN CONFINED SPACE,  
FOLLOW APPLICABLE OSHA REGULATIONS.

Ventilation:ADEQUATE TO PREVENT ACCUMULATION OF VAPORS. USE MECHANICAL  
MEANS IF NECESSARY TO MAI

NTAIN LEVELS BELOW THE EXPOSURE LIMITS.

Protective Gloves:WEAR CHEMICALLY PROTECTIVE GLOVES.

Eye Protection:WEAR SAFETY GLASSES.

Other Protective Equipment:USE A SPLASH APRON AND BOOTS IF SPLASHING OCCURS.

Supplemental Safety and Health

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

HCC:V2

Boiling Pt:B.P. Text:ND

Melt/Freeze Pt:M.P/F.P Text:ND

Vapor Pres:ND

Vapor Density:>1(AIR=1)

Spec Gravity:>1

pH:NA

Evaporation Rate & Reference:FAST

Solubility in Water:SLIGHT I

N WATER.

Appearance and Odor:CLEAR, COLORLESS LIQUID WITH A FAINT ETHEREAL ODOR.

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS, POWDERED METALS SUCH AS ALUMINUM, MAGNESIUM, CALCIUM, ZINC. DO NOT STORE IN ALUMINUM CONTAINERS.

Stability Condition to Avoid:POWERED METALS SUCH AS ALUMINUM, MAGNESIUM, CALCIUM, ZINC. DO NOT STORE IN ALUMINUM CONTAINERS.

Hazardous Decomposition Products:NONE.

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= Toxicological Information =====

Toxicological Information:LONG-TERM TOXICOLOGICAL STUDIES HAVE NOT BEEN CONDUCTED FOR THIS PRODUCT. SEE HAZARDS SECTION OF THIS MSDS FOR ACUTE SYMPTOMS OF OVEREXPOSURE AND CARCINOGENICITY INFORMATION.

===== Ecological Information =====

Ecological:ECOTOXICITY: NO DATA AVAILABLE. ENVIRONMENTAL FATE: NO DATA AVAILABLE FOR BIODEGRADATION.

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

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Waste Disposal Methods:USED AND UNUSED PRODUCT SHOULD BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, LOCAL REGULATIONS. DISCARDED MATERIAL MAY BE HAZARDOUS WASTE UNDER U.S. EPA RCRA REGULATIONS. DISPOSAL MUST COMPLY WITH FEDERAL, STATE, LOCAL REGULATIONS. CONTACT LOCAL OR STATE ENVIRONMENTAL AGENCY FOR RULES. DO NOT DUMP INTO SEWERS, ON GROUND, INTO ANY BODY OF WATER.

===== MSDS Transport Information =====

Transport Information:SHIPPIN  
G NAME: AEROSOLS; CLASS 2.2; UN 1950; PKG:  
N/A; LABEL: N/A; PLACARD: N/A; SPECIAL PROVISIONS: LIMITED  
QUANTITY.

===== Regulatory Information =====

SARA Title III Information:SECTION 311 / 312: ACUTE, PRESSURE. SECTION  
313: 1,1-DICHLORO-1-FLUORETHANE, 17 %. CERCLA / SUPERFUND (RQ):  
N/A. EXTREMELY HAZARDOUS SUBSTANCES: NO.  
Federal Regulatory Information:TSCA: ALL COMPONENTS ARE EITHER LISTED  
UNDER TSCA OR ARE EXEMPT.  
State Regulatory Informa  
tion:CALIFORNIA PROP 65: NO.

===== Other Information =====

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