

127305  
DOD Hazardous Materials Information System

DoD 6050.5-L

AS OF July 1998

FSC: 6810  
NIIN: 002709982  
Manufacturer's CAGE: 0CD22  
Part No. Indicator: A  
Part Number/Trade Name: PERCHLOROETHYLENE

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General Information

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Item Name: DRY CLEANING SOLVENT  
Company's Name: VAN WATERS AND ROGERS INC DIV OF UNIVAR CORP  
Company's Street: 9733 COACH ROAD  
Company's P. O. Box:  
Company's City: RICHMOND  
Company's State: VA  
Company's Country: US  
Company's Zip Code: 23237  
Company's Emerg Ph #: 804-743-0540  
Company's Info Ph #: 804-743-0540  
Distributor/Vendor # 1:  
Distributor/Vendor # 1 Cage:  
Distributor/Vendor # 2:  
Distributor/Vendor # 2 Cage:  
Distributor/Vendor # 3:  
Distributor/Vendor # 3 Cage:  
Distributor/Vendor # 4:  
Distributor/Vendor # 4 Cage:  
Safety Data Action Code: C  
Safety Focal Point: D  
Record No. For Safety Entry: 001  
Tot Safety Entries This Stk#: 014  
Status: SE  
Date MSDS Prepared: 06SEP90  
Safety Data Review Date: 18MAR98 \*  
Supply Item Manager: CX \*  
MSDS Preparer's Name:  
Preparer's Company:  
Preparer's St Or P. O. Box:  
Preparer's City:  
Preparer's State:  
Preparer's Zip Code:

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Other MSDS Number:  
MSDS Serial Number: BKBKP  
Specification Number: ASTM D 4081 \*  
Spec Type, Grade, Class: GRADE A \*  
Hazard Characteristic Code: T4  
Unit Of Issue: DR \*  
Unit Of Issue Container Qty: 55 GAL \*  
Type Of Container: DRUM \*  
Net Unit Weight: 742.0 LBS \*

Report for NIIN: 002709982

NRC/State License Number:  
Net Explosive Weight:  
Net Propellant Weight-Ammo:  
Coast Guard Ammunition Code:

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Ingredients/Identity Information

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Proprietary: NO  
Ingredient: PERCHLOROETHYLENE (TETRACHLOROETHYLENE) (SARA III)  
Ingredient Sequence Number: 01  
Percent: 99.5  
Ingredient Action Code:  
Ingredient Focal Point: D  
NIOSH (RTECS) Number: KX3850000  
CAS Number: 127-18-4  
OSHA PEL: 100 PPM  
ACGIH TLV: 25PPM/100,A3 STEL;94  
Other Recommended Limit: NONE SPECIFIED

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Proprietary: NO  
Ingredient: CARBON TETRACHLORIDE (SARA III)  
Ingredient Sequence Number: 02  
Percent: < 2 PPM  
Ingredient Action Code:  
Ingredient Focal Point: D  
NIOSH (RTECS) Number: FG4900000  
CAS Number: 56-23-5  
OSHA PEL: 10 PPM  
ACGIH TLV: S,5PPM/10 STEL,A3 93  
Other Recommended Limit: NONE SPECIFIED

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Proprietary: NO  
Ingredient: EPICHLOROHYDRIN (SARA III)  
Ingredient Sequence Number: 03

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Percent: 0.1  
Ingredient Action Code:  
Ingredient Focal Point: D  
NIOSH (RTECS) Number: TX4900000  
CAS Number: 106-89-8  
OSHA PEL: S, 5 PPM  
ACGIH TLV: S, 2 PPM; 9293  
Other Recommended Limit: NONE SPECIFIED

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Proprietary: NO  
Ingredient: OXIRANE, ((1,1-DIMETHYLETHOXY)METHYL)-  
Ingredient Sequence Number: 04  
Percent: 0.5  
Ingredient Action Code:  
Ingredient Focal Point: D  
NIOSH (RTECS) Number: RR0475000  
CAS Number: 7665-72-7  
OSHA PEL: NOT ESTABLISHED  
ACGIH TLV: NOT ESTABLISHED

Report for NIIN: 002709982

Other Recommended Limit: NONE SPECIFIED

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Physical/Chemical Characteristics

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Appearance And Odor: CLEAR, COLORLESS LIQUID, CHARACTERISTIC "DRY CLEAN  
ING"  
ODOR  
Boiling Point: 250F, 121C  
Melting Point: -10F, -23C  
Vapor Pressure (MM Hg/70 F): 13  
Vapor Density (Air=1): 5.8 AIR=1  
Specific Gravity: 1.620  
Decomposition Temperature: UNKNOWN  
Evaporation Rate And Ref: <1 (N-BUTYL ACETATE=1)  
Solubility In Water: <0.01  
Percent Volatiles By Volume: 100  
Viscosity:  
pH: N/R  
Radioactivity:  
Form (Radioactive Matl):  
Magnetism (Milligauss): N/P  
Corrosion Rate (IPY): UNKNOWN  
Autoignition Temperature: N/R

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Fire and Explosion Hazard Data

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Flash Point: N/R  
Flash Point Method: N/P  
Lower Explosive Limit: N/R  
Upper Explosive Limit: N/R  
Extinguishing Media: USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMI  
CAL  
AS APPROPRIATE FOR SURROUNDINGS.  
Special Fire Fighting Proc: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SC  
BA &  
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY  
TO  
COOL NEARBY CONTAINERS EXPOSED TO FIRE.  
Unusual Fire And Expl Hazrds: FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCT  
ION  
OF HAZARDOUS DECOMPOSITION PRODUCTS INCLUDING PHOSGENE AND HYDROGEN  
CHLORIDE.

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Reactivity Data

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Stability: YES  
Cond To Avoid (Stability): HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES.  
HIGH PRESSURE ALUMINUM SYSTEMS.  
Materials To Avoid: STRONG OXIDIZING AGENTS. ACTIVE METALS (SODIUM,  
POTASSIUM, LITHIUM, ZINC, ALUMINUM, BARIUM ETC.)  
Hazardous Decomp Products: WHEN INVOLVED IN FIRE, TETRACHLOROETHANE EM  
ITS  
HIGHLY TOXIC AND IRRITATING HYDROGEN CHLORIDE AND PHOSGENE FUMES.  
Hazardous Poly Occur: NO  
Conditions To Avoid (Poly): NOT APPLICABLE

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Health Hazard Data

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LD50-LC50 Mixture: ORAL LD50 (RAT) = 5000 MG/KG  
Route Of Entry - Inhalation: YES  
Route Of Entry - Skin: YES  
Route Of Entry - Ingestion: YES  
Health Haz Acute And Chronic: ACUTE: MAY CAUSE EYE & SKIN IRRITATION.

MAY

CAUSE RESPIRATORY TRACT IRRITATION. CENTRAL NERVOUS SYSTEM DEPRESSANT. LOSS

OF CONSCIOUSNESS AND EVEN DEATH CAN OCCUR AT HIGH LEVELS OF EXPOSURE. CHRONIC:LIVER AND KIDNEY DAMAGE. ASPIRATION HAZARD DO NOT INDUCE VOMITING.

PROBABLE CANCER HAZARD.

Carcinogenicity - NTP: YES

Carcinogenicity - IARC: YES

Carcinogenicity - OSHA: NO

Explanation Carcinogenicity: LISTED AS A CARCINOGEN BY NTP AND IARC.

Signs/Symptoms Of Overexp: INCOORDINATION AND IMPAIRED JUDGMENT MAY OCCUR

AT VAPOR EXPOSURES FROM 200 PPM. DIZZINESS, DROWSINESS, AND GENERAL ANESTHETIC EFFECTS MAY OCCUR IN RANGES OF 1000 PPM AND HIGHER.

Med Cond Aggravated By Exp: EYE/SKIN/RESPIRATORY CONDITIONS MAY BE AGGRAVATED BY EXPOSURE. MAY CAUSE CANCER.

Emergency/First Aid Proc: INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE CPR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. EYE: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH

WITH SOAP AND WATER PROMPTLY. INGESTION: DO NOT INDUCE VOMITING. GIVE MILK

OR USP MINERAL OIL. GET IMMEDIATE MEDICAL ATTENTION.

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Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: SMALL SPILL: WIPE UP WITH RAGS OR TOWELS

LARGE SPILLS: WEAR NIOSH APPROVED RESPIRATOR. VENTILATE AREA. DIKE TO RETAIN FLUID. PUMP UP FREE LIQUID. RESIDUE WILL EVAPORATE QUICKLY. DO NOT

FLUSH TO SEWER OR WATERWAY.

Neutralizing Agent: NONE

Waste Disposal Method: CLEAN-UP DEBRIS WILL LIKELY BE A LAND-BANNED HAZARDOUS WASTE. (CODE=F002) DISPOSAL WILL BE IN ACCORD WITH APPLICABLE

REGULATIONS.

Precautions-Handling/Storing: STORE IN A COOL, DRY, WELL-VENTILATED LOCATION, AWAY FROM ANY AREA WHERE THE FIRE HAZARD MAY BE ACUTE. KEEP CONTAINERS CLOSED WHEN NOT IN USE.

Other Precautions: DO NOT USE WITH PRESSURIZED ALUMINUM SYSTEMS. READ AND

FOLLOW DIRECTIONS ON LABEL. DO NOT REUSE CONTAINERS. AVOID WELDING, BRAZING, DRILLING, SOLDERING AND OTHER HIGH TEMPERATURE AND SPARK

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CONDITIONS AROUND THIS PRODUCT.

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Control Measures

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Respiratory Protection: IN HIGH VAPOR AREA, USE NIOSH/MSHA APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE. USE SELF-CONTAINED BREATHING APPARATUS IF ALLOWABLE VAPOR LEVELS ARE EXCEEDED.

Ventilation: LOCAL EXHAUST RECOMMENDED TO CONTROL VAPORS BELOW 50% OF TLV.

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Protective Gloves: NEOPRENE, PVA GLOVES RECOMMENDED.

Eye Protection: USE CHEMICAL SAFETY GOGGLES.

Other Protective Equipment: APRON AND WORK CLOTHING TO MINIMIZE EXPOSURE.

EYE WASH STATION & SAFETY SHOWER RECOMMENDED.

Work Hygienic Practices: WASH THOROUGHLY AFTER USE AND BEFORE EATING, SMOKING OR USING TOILET FACILITIES. DO NOT BREATHE VAPORS OR MIST.

Suppl. Safety & Health Data: TARGET ORGANS ARE SKIN, CNS, CVS, AND EYES.

STORE IN COOL, DRY PLACE.

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Transportation Data

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Transportation Action Code: C

Transportation Focal Point: D

Trans Data Review Date: 98077

DOT PSN Code: NYB

DOT Symbol:

DOT Proper Shipping Name: TETRACHLOROETHYLENE

DOT Class: 6.1

DOT ID Number: UN1897

DOT Pack Group: III

DOT Label: KEEP AWAY FROM FOOD

DOT/DoD Exemption Number:

IMO PSN Code: OJV

IMO Proper Shipping Name: TETRACHLOROETHYLENE

IMO Regulations Page Number: 6264

IMO UN Number: 1897

IMO UN Class: 6.1

IMO Subsidiary Risk Label: -

IATA PSN Code: XOW

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IATA UN ID Number: 1897  
IATA Proper Shipping Name: TETRACHLOROETHYLENE  
IATA UN Class: 6.1  
IATA Subsidiary Risk Class:  
IATA Label: TOXIC  
AFI PSN Code: XOW  
AFI Symbols:  
AFI Prop. Shipping Name: TETRACHLOROETHYLENE  
AFI Class: 6.1  
AFI ID Number: UN1897  
AFI Pack Group: III  
AFI Label:  
AFI Special Prov: N36  
AFI Basic Pac Ref: 10-10  
MMAC Code:  
N.O.S. Shipping Name:  
Additional Trans Data:

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Disposal Data

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Disposal Data Action Code:  
Disposal Data Focal Point:  
Disposal Data Review Date:  
Rec # For This Disp Entry:

Report for NIIN: 002709982

Tot Disp Entries Per NSN:  
Landfill Ban Item:  
Disposal Supplemental Data:  
1st EPA Haz Wst Code New:  
1st EPA Haz Wst Name New:  
1st EPA Haz Wst Char New:  
1st EPA Acute Hazard New:  
2nd EPA Haz Wst Code New:  
2nd EPA Haz Wst Name New:  
2nd EPA Haz Wst Char New:  
2nd EPA Acute Hazard New:  
3rd EPA Haz Wst Code New:  
3rd EPA Haz Wst Name New:  
3rd EPA Haz Wst Char New:  
3rd EPA Acute Hazard New:

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Label Data

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Label Required: YES  
Technical Review Date: 29MAY91  
Label Date:  
MFR Label Number: N/R  
Label Status: F  
Common Name: PERCHLOROETHYLENE  
Chronic Hazard: YES  
Signal Word: WARNING!  
Acute Health Hazard-None:  
Acute Health Hazard-Slight:  
Acute Health Hazard-Moderate: X  
Acute Health Hazard-Severe:  
Contact Hazard-None:  
Contact Hazard-Slight: X  
Contact Hazard-Moderate:  
Contact Hazard-Severe:  
Fire Hazard-None:  
Fire Hazard-Slight: X  
Fire Hazard-Moderate:  
Fire Hazard-Severe:  
Reactivity Hazard-None: X  
Reactivity Hazard-Slight:  
Reactivity Hazard-Moderate:  
Reactivity Hazard-Severe:  
Special Hazard Precautions: ACUTE: MAY CAUSE EYE & SKIN IRRITATION. MAY  
CAUSE RESPIRATORY TRACT IRRITATION. CENTRAL NERVOUS SYSTEM DEPRESSANT.  
LOSS  
OF CONSCIOUSNESS AND EVEN DEATH CAN OCCUR AT HIGH LEVELS OF EXPOSURE.  
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Y  
FROM ANY AREA WHERE THE FIRE HAZARD MAY BE ACUTE. KEEP CONTAINERS CLOS  
ED  
WHEN NOT IN USE.  
Protect Eye: Y

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Protect Skin: Y  
Protect Respiratory: Y



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Label Name: VAN WATERS AND ROGERS INC DIV OF UNIVAR CORP  
Label Street: 9733 COACH ROAD  
Label P.O. Box:  
Label City: RICHMOND  
Label State: VA  
Label Zip Code: 23237  
Label Country: US  
Label Emergency Number: 804-743-0540  
Year Procured: