

VALVOLINE OIL SUBSIDIARY OF ASHLAND OIL -- 20-9523 FREON 22 -
NOMOCHLORODIFLUOROMETHANE, TECHNICAL
MATERIAL SAFETY DATA SHEET
VALVOLINE OIL SUBSIDIARY OF ASHLAND OILNSN: 6830009359896
Manufacturer's CAGE: 72527
Part No. Indicator: A
Part Number/Trade Name: 20-9523 FREON 22

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General Information
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Item Name: NOMOCHLORODIFLUOROMETHANE, TECHNICAL
Company's Name: VALVOLINE OIL CO SUBSIDIARY OF ASHLAND OIL INC.
Company's Street: 200 E MAIN ST
Company's P. O. Box: 14000
Company's City: LEXINGTON
Company's State: KY
Company's Country: US
Company's Zip Code: 40512
Company's Emerg Ph #: 800-ASHLAND/800-274-5263
Company's Info Ph #: 606-264-7000/7616; FAX 601-429-0537
Distributor/Vendor # 1: BALKAMP INC (317-248-0760)
Distributor/Vendor # 1 Cage: 70842
Distributor/Vendor # 2: NATIONAL AUTOMOTIVE PARTS ASSN/NAPA/
Distributor/Vendor # 2 Cage: 050Q3
Record No. For Safety Entry: 014
Tot Safety Entries This Stk#: 017
Status: SE
Date MSDS Prepared: 31MAY89
Safety Data Review Date: 03FEB97
Supply Item Manager: CX
Preparer's Company: (DATA SHEET #:0016337-002)
MSDS Serial Number: CCMRP
Specification Number: BB-F-1421
Spec Type, Grade, Class: 22 TYPE
Hazard Characteristic Code: G3
Unit Of Issue: CY
Unit Of Issue Container Qty: 30 LBS
Type Of Container: DISPO CYLNDER
Net Unit Weight: 30 LBS

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: CHLORODIFLUOROMETHANE (SARA 313) (CERCLA)
Ingredient Sequence Number: 01
Percent: 85-100
NIOSH (RTECS) Number: PA6390000
CAS Number: 75-45-6
OSHA PEL: 1000 PPM
ACGIH TLV: 1000 PPM; 9596
Other Recommended Limit: NONE RECOMMENDED

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Physical/Chemical Characteristics
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Appearance And Odor: CLEAR, COLORLESS LIQUID, HOMOG SOLN.
Boiling Point: -41F, -41C
Melting Point: NP

Vapor Pressure (MM Hg/70 F): 7805MM@77F
Vapor Density (Air=1): 7.0
Specific Gravity: 1.190 @77F
Decomposition Temperature: NP
Evaporation Rate And Ref: FASTER THAN ETHER.
Solubility In Water: NP
Percent Volatiles By Volume: 100
Viscosity: NP
pH: NP
Corrosion Rate (IPY): NP
Autoignition Temperature: NP

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Fire and Explosion Hazard Data
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Flash Point: NOT APPLICABLE
Lower Explosive Limit: NA
Upper Explosive Limit: NA
Extinguishing Media: WATER FOG.
Special Fire Fighting Proc: WEAR SCBA W/FULL FACEPIECE OPERATED IN
POSITIVE PRESSURE DEMAND MODE WHEN FIGHTING FIRES.
Unusual Fire And Expl Hazrds: NEVER USE WELD/CUT TORCH ON/NEAR DR(EVEN
EMPTY)-PROD(EVEN JUST RESIDUE)CAN IGN EXPLOSIVELY.

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Reactivity Data
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Stability: YES
Cond To Avoid (Stability): NONE SPECIFIED BY MANUFACTURER.
Materials To Avoid: AVOID CONTACT W/STRONG OXIDIZING AGENTS.
Hazardous Decomp Products: MAY FORM TOXIC MATLS,CO2, CO, HYDROGEN
CHLORIDE, PHOSGENE, HYDROGEN FLUORIDE, VARIOUS HYDROCARBONS, ETC.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT APPLICABLE

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Health Hazard Data
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LD50-LC50 Mixture: TLV:1000 PPM.
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: EYE:CAN CAUSE SEVERE IRRIT,REDNESS,TEARING,
BLURRED VISION.SKIN:PROL/REP CONTACT CAN CAUSE MODERATE IRRIT,DEFATTING,
DERM.BREATH:EXCESSIVE VAP INHAL CAN CAUSE NASAL/RESP IRRIT,CNS EFFECTS
INCLUDING DIZZ,WEAK,FTG,NAU,HEAD,POSSIBLE UNCONSC,EVEN DEATH.INGEST:CAN
CAUSE GASTROINTESTINAL IRRIT,NAU,VOMIT,DIARRHEA.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Signs/Symptoms Of Overexp: SEVERE EYE IRRIT,REDNESS,TEARING,BLURRED
VISION. MODERATE SKIN IRRIT,DEFATTING,DERM. NASAL/RESPIRATORY IRRIT,CNS
EFFECTS-DIZZINESS,WEAKNESS,FTG,NAU,HEADACHE,POSSIBLE UNCONSC,DEATH.
GASTROINTESTINAL IRRIT,NAU,VOMIT,DIARRHEA.
Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.
Emergency/First Aid Proc: SKIN:THOROUGHLY WASH W/SOAP/WATER.REMOVE
CONTAMIN CLOTH.EYE:FLUSH W/LG AMTS OF WATER LIFTING UPPER/LOWER LIDS
OCCASIONALLY.GET MED ATTN.INGEST:DO NOT INDUCE VOMIT.IMMED DRINK 2 GLASSES
OF WATER.NEVER GIVE ANYTHING BY MOUTH IF UNCONSC.CALL DR/TRANSP TO EMERG
FACILITY.INHAL:REMOVE TO FRESH AIR.BREATH DIFFI ADMIN OXY;BREATH STOP GIVE

ART RESP.KEEP WARM/QUIET.GET MED ATTN.DO NOT GIVE STIMULANTS.(SUPP)

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Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: SM:ABSORB ON PAPER/VERMI/FLOOR ABSORB/OTHER
ABSORB MATL.LG:PERSON NOT WEARING PROT EQPMT SHOULD BE EXCLUDED FROM AREA
TIL CLEANUP COMPLETED.STOP SPILL/DIKE TO PREVENT SPREADING.PUMP TO SALVAGE
TK.REMAINING LIQ MAYBE TAKEN UP ON SAND/CLAY/EARTH(SUPPL)

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Method: SM:ALLOW VOLATILE PORTION TO EVAPORATE IN HOOD.
ALLOW SUFFICIENT TIME FOR VAP TO COMPLETELY CLEAR HOOD DUCTWORK.DISPO
REMAIN MATL IAW APPLICABLE REGS.LG:VENTILATE AREA OF SPILL.ALLOW MATL TO
EVAPORATE.

Precautions-Handling/Storing: CNTNR OF THIS MATL MAY BE HAZ WHEN EMPTIED
SINCE THEY RETAIN PROD RESIDUE(VAP,LIQ,SOLID).ALL HAZ PRECAUTION GIVEN IN
MSDS MUST BE OBSERVED.

Other Precautions: NONE SPECIFIED BY MANUFACTURER.

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Control Measures

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Respiratory Protection: WORKPLACE EXPO PROD/COMPONENT LIMITS EXCEEDED,
NIOSH/MSHA APPROVE AIR SUPPLIED RESP ADVISED IN ABSENCE OF PROPER ENVIRO
CNTRL.OSHA REGS PERMIT OTHER NIOSH/MSHA RESP UNDER SPEC CONDITIONS.(SEE SAF
EQPMT SUPPLIER).IMPLEMENT ENGIN/ADMIN CNTRL.

Ventilation: PROIVDE SUFFICIENT MECHANICAL(GEN &/OR LOC EXHAUST)
VENTILATION TO MAINTAIN EXPO BELOW TLVS.

Protective Gloves: RESISTANT GLOVES:NITRILE RUBBER.

Eye Protection: CHEM SPLASH GOGG,OTHER OSHA TYPE GLASSES

Other Protective Equipment: NORMAL WORK CLOHTING COVERING ARMS/LEGS.

Work Hygienic Practices: WASH CONTAMIN CLOTH BEF REUSE.

Suppl. Safety & Health Data: 1ST AID:EPINEPHRINE OR EPHEDRINE AMY ADVERSELY
AFFECT THE HEART W/FATAL RESULTS. SPILL:OTHER ABSORB MATL;SHOVEL INTO
CNTNRS.PREVENT RUNOFFS INTO SEWER/ETC ENTRY;IF SO NOTIFY AUTHORITIES

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Transportation Data

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Trans Data Review Date: 97034

DOT PSN Code: DQQ

DOT Proper Shipping Name: COMPRESSED GASES, N.O.S.

DOT Class: 2.2

DOT ID Number: UN1956

DOT Label: NONFLAMMABLE GAS

IMO PSN Code: EQH

IMO Proper Shipping Name: COMPRESSED GAS, N.O.S. o

IMO Regulations Page Number: 2124

IMO UN Number: 1956

IMO UN Class: 2(2.2)

IMO Subsidiary Risk Label: -

IATA PSN Code: HDO

IATA UN ID Number: 1956

IATA Proper Shipping Name: COMPRESSED GAS, N.O.S. *

IATA UN Class: 2.2

IATA Label: NON-FLAMMABLE GAS

AFI PSN Code: HDO

AFI Prop. Shipping Name: COMPRESSED GAS, N.O.S.

AFI Class: 2.2

AFI ID Number: UN1956

AFI Basic Pac Ref: A6.3,A6.5,A6.7

N.O.S. Shipping Name: CHLORODIFLUOROMETHANE.

Additional Trans Data: PER MSDS:DOT HAZ CLASSIFICATION:NOT APPLICABLE

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Disposal Data
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Label Data
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Label Required: YES

Technical Review Date: 03FEB97

Label Status: F

Common Name: 20-9523 FREON 22

Chronic Hazard: YES

Signal Word: WARNING!

Acute Health Hazard-Moderate: X

Contact Hazard-Slight: X

Fire Hazard-None: X

Reactivity Hazard-None: X

PROL/REP CONTACT MODERATE IRRIT,DEFAT,DERM.BREATH:EXCESSIVE VAP INHAL
NASAL/RESP IRRIT,CNS EFFECTS-DIZZ,WEAK,FTG,NAU,HEAD,UNCONSC,DEATH.INGEST:GI
IRRIT,NAU,VOMIT,DIARR.1ST AID:SKIN:WASH WELL W/SOAP/WATER.REMOVE CONTAM
CLOTH.EYE:FLUSH W/LOTS OF WATER;LIFT LIDS.GET MED ATTN.INGEST:DO NOT INDUCE
VOMIT.IMMED DRINK 2 GLASSES OF WATER.NEVER GIVE ANYTHING BY MOUTH IF
UNCONSC.CALL DR/TRANSP TO EMERG FACILITY.INHAL:REMOVE TO FRESH AIR.BREATH
DIFFI ADMIN OXY;BREATH STOP GIVE ART RESP.GET MED ATTN.DON'T GIVE
STIMULANTS.EPINEPHRINE/EPHEDRINE MAY ADVERSELY AFFECT HEART W/FATAL
RESULTS.TARORG:CNS,HEART,EYE,SKIN.

Protect Eye: Y

Protect Skin: Y

Protect Respiratory: Y

Label Name: VALVOLINE OIL CO SUBSIDIARY OF ASHLAND OIL
INC.

Label Street: 200 E MAIN ST

Label P.O. Box: 14000

Label City: LEXINGTON

Label State: KY

Label Zip Code: 40512

Label Country: US

Label Emergency Number: 800-ASHLAND/800-274-5263