

VALVOLINE CO

-- NAPA ANTIFREEZE COOLANT

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MSDS Safety Information
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FSC: 6850
MSDS Date: 05/07/1996
MSDS Num: CCNZD
LIIN: 00N073626
Product ID: NAPA ANTIFREEZE COOLANT
MFN: 01
Responsible Party
Cage: IO754
Name: VALVOLINE CO
Box: 14000
City: LEXINGTON KY 40512
Info Phone Number: 606-357-7847
Emergency Phone Number: 800-274-5263
Published: Y

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Contractor Summary
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Cage: IO754
Name: THE VALVOLINE CO
Box: 14000
City: LEXINGTON KY 40512
Phone: 606-357-7847
Cage: 72527
Name: VALVOLINE OIL CO
Address: 3499 BLAZER PKY
Box: 14000
City: LEXINGTON KY 40512
Phone: 606-357-7206 / 800-274-5263

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Ingredients
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Cas: 107-21-1
RTECS #: KW2975000
Name: ETHYLENE GLYCOL (SARA 313) (CERCLA)
% Wt: 83
OSHA PEL: N/K (FP N)
ACGIH TLV: 50 PPM, VAPOR, C
EPA Rpt Qty: 1 LB
DOT Rpt Qty: 1 LB

Cas: 111-46-6
RTECS #: ID5950000
Name: DIETHYLENE GLYCOL
% Wt: 6-16
OSHA PEL: N/K (FP N)
ACGIH TLV: N/K (FP N)

 Cas: 7758-11-4
 Name: POTASSIUM PHOSPHATE
 % Wt: 0.0-7.0
 OSHA PEL: N/K (FP N)
 ACGIH TLV: N/K (FP N)

Name: SUPDAT: BASED ON POSITIVE TEST RESULTS WITH LAB ANIMALS.

Name: FIRST AID PROC: VOMIT BY GIVING SYRUP OF IPECAC/BY GENTLY PLACIN
 FINGERS AT BACK OF THROAT. IF POSS, DO NOT

Name: ING 5: LEAVE UNATTENDED. INHAL: IF SYMPS DEVELOP, IMMED MOVE AWAY
 EXPOS & INTO FRESH AIR. SEEK IMMED MED ATTN;

Name: ING 6: KEEP PERSON WARM & QUIET. IF NOT BRTHG, BEGIN ARTF RESP.
 BRTHG IS DFCLT, ADMIN OXYGEN. NOTE TO MD: PROD

Name: ING 7: CNTNS ETHYLENE GLYCOL. ETHANOL DECRS METABOLISM OF ETHYLE
 TO TOX METABOLITES. ETHANOL SHOULD BE

Name: ING 8: ADMIN AS SOON AS POSS IN CASES OF SEV POISONING SINCE ELI
 HALF-LIFE OF ETHYLENE GLYCOL IS 3 HRS. IF MED

Name: ING 9: CARE WILL BE DELAYED SEVERAL HRS, USE THREE TO FOUR 1-OZ O
 "SHOTS" OF 86-PROOF/HIGHER WHISKEY BEFORE

Name: ING 10: OR DURING TRANSPORT TO HOSPITAL. HEMODIALYSIS EFTIVELY R
 ETHYLENE GLYCOL & ITS METABOLITES FROM THE BODY.

Name: SPILL PROC: PUMP LIQ TO SALVAGE TANK. REMAINING LIQ MAY BE TAKEN
 SAND, CLAY, EARTH, FLOOR ABSORB OR OTHER

Name: ING 12: ABSORB MATL & SHOVELED INTO CNTNRS.

Name: RESP PROT: INDUSTRIAL HYGIENIST). ENGINEERING OR ADMINISTRATIVE
 SHOULD BE IMPLEMENTED TO REDUCE EXPOSURES.

Name: PROT GLOVES: NITRILE, NITRILE RUBBER, POLYVINYL CHLORIDE.
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Health Hazards Data

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LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
 Route Of Entry Inds - Inhalation: YES
 Skin: YES
 Ingestion: NO
 Carcinogenicity Inds - NTP: NO
 IARC: NO
 OSHA: NO
 Effects of Exposure: EYE: EXPOS MAY CAUSE MILD IRRIT. SYMPS MAY INCL ST

TEARING & REDNESS. SKIN:EXPOS MAY CAUSE MILD IRRIT. SYMPS MAY INCL REDNESS & BURNING. INGEST:SINGLE DOSE ORAL TOX IS LOW. SWALLOWING SM DU RING NORM HNDLG IS NOT LIKELY TO CAUSE HARMFUL EFTS; SWALLOWING L MAY BE HARMFUL. INHAL:EXPOS (EFTS OF OVEREXP)

Explanation Of Carcinogenicity: NOT RELEVANT

Signs And Symptions Of Overexposure: HLTH HAZ: TO VAP/MIST IS POSS. SY EXPOS: GI IRRIT (NAUS, VOMIT, DIARR), IRRIT (NOSE, THROAT, RESP TRAC DEPRESS (DIZZ, DROW, WEAK, FATG, NAUS, HDCH, UNCON), KIDNEY DMG. OVE MATL (OR ITS COMPONENTS) HAS BEEN SUGGESTED AS A CAUSE OF FOLLOWING LAB ANIMALS & MAY AGGRAVATE PRE-EXISTING (SUPDAT)

Medical Cond Aggravated By Exposure: PRE-EXISTING LUNG DISORDERS, EG ASTHMA-LIKE CONDITIONS, MAY BE AGGRAVATED BY EXPOSURE TO THIS MATERI

First Aid: EYES:IMMED MOVE AWAY FROM EXPOS & INTO FRESH AIR. FLUSH GEN W/WATER FOR AT LEAST 15 MIN WHILE HOLDING LIDS APART; SEEK IMMED MED SKIN:REMOVE CONTAMD CLTHG. WASH EXPOSED AREA W/SOAP & WATER. I F SYM PERSIST, SEEK MED ATTN. LAUNDERCLTHG BEFORE REUSE. INGEST:SEEK MED A DROWSY/UNCON, DO NOT GIVE ANYTHING BY MOUTH; PLACE ON LEFT SIDE W/HE IF CONSCIOUS & ALERT, INDUCE

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Handling and Disposal
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Spill Release Procedures: SM SPILL:ABSORB LIQ ON VERMICULITE, FLOOR ABSORB/OTHER ABSORB MATL. LG SPILL:PERS NOT WEARING PROT EQUIP SHOUL EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS BEEN COMPLETED. STOP SOURCE, DIKE AREA OF SPILL TO PVNT SPREADING,

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: DESTROY BY LIQUID INCINERATION. DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

Handling And Storage Precautions: CNTNRS OF MATL MAY BE HAZ WHEN EMPTI EMPTIED CNTNRS RETAIN PROD RESIDUES (VAP, LIQ &/OR SOLID), ALL HAZ P GIVEN IN MSDS MUST BE OBSERVED.

Other Precautions: NONE SPECIFIED BY MANUFACTURER.
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Fire and Explosion Hazard Information
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Flash Point Method: COC
Flash Point Text: 250F,121C
Lower Limits: 3.2%

Extinguishing Media: ALCOHOL FOAM, CARBON DIOXIDE, DRY CHEMICAL.
Fire Fighting Procedures: USE NIOSH APPROVED SCBA AND FULL PROTECTIVE (FP N). REFER TO PERSONAL PROTECTIVE EQUIPMENT SECTION OF MSDS.
Unusual Fire/Explosion Hazard: NEVER USE WELDING/CUTTING TORCH ON/NEAR (EVEN EMPTY) BECAUSE PROD (EVEN JUST RESIDUE) CAN IGNITE EXPLO. COMB FORM CARBON DIOXIDE & CARBON (SUPDAT)
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Control Measures
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Respiratory Protection: IF WORKPLACE EXPOS LIM(S) OF PROD/ANY COMPONEN EXCEEDED, NIOSH APPRVD AIR SUPPLIED RESP IS ADVISED IN ABSENCE OF PR ENVIRON CTL. OSHA REGS ALSO PERMIT OTHER NIOSH RESPS (NEG PRESS TYPE

SPECIFIED CNDTNS (CONSULT

Ventilation: PROVIDE SUFFICIENT MECHANICAL (GENERAL &/OR LOCAL EXHAUST VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves: RESIST GLOVES SUCH AS: NEOPRENE

Eye Protection: ANSI APPRVD CHEM WORKERS GOGGLES (FP N).

Other Protective Equipment: ANSI APPROVED EYE WASH & DELUGE SHOWER (FP PREVENT RPTD/PRLNGD SKIN CONTACT WEAR IMPERVIOUS CLOTHING & BOOTS.

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health: EXPLO HAZ: MONOXIDE, VARIOUS HYDROCARB OF OVEREXP:DISORDERS OF THESE ORGANS IN HUMANS:KIDNEY DMG; IT HAS BE SUGGESTED AS A CAUSE OF FOLLOWING EFTS IN HUMANS & MAY AGGRAVATE PRE-EXISTING DISOR DERS OF THESE ORGANS: CNS EFTS, LIVER ABNORMS, KI MATL (OR COMPONENT) MAY CAUSE BIRTH DEFECTS IN HUMANS

Physical/Chemical Properties

B.P. Text: 330F,166C

Vapor Pres: 0.800 @68F

Vapor Density: >1

Spec Gravity: 1.135

PH: 9-11

Appearance and Odor: GREEN LIQUID; FAINT GLYCOL ODOR.

Reactivity Data

Stability Indicator: YES

Stability Condition To Avoid: NONE SPECIFIED BY MANUFACTURER.

Materials To Avoid: AVOID CONTACT WITH STRONG OXIDIZING AGENTS.

Hazardous Decomposition Products: MAY FORM CARBON DIOXIDE AND CARBON M VARIOUS HYDROCARBONS.

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: NOT RELEVANT

Toxicological Information

Ecological Information

MSDS Transport Information

Regulatory Information

Other Information

HAZCOM Label

Product ID: NAPA ANTIFREEZE COOLANT
 Cage: IO754
 Assigned IND: Y
 Company Name: THE VALVOLINE CO
 PO Box: 14000
 City: LEXINGTON KY
 Zipcode: 40512
 Health Emergency Phone: 800-274-5263
 Label Required IND: Y
 Date Of Label Review: 10/08/1996
 Status Code: C
 Label Date: 10/08/1996
 Origination Code: G
 Chronic Hazard IND: Y
 Eye Protection IND: YES
 Skin Protection IND: YES
 Signal Word: WARNING
 Respiratory Protection IND: YES
 Health Hazard: Moderate
 Contact Hazard: Slight
 Fire Hazard: Slight
 Reactivity Hazard: None

Hazard And Precautions: COMBUSTIBLE. ACUTE: EYE: EXPOSURE MAY CAUSE MI
 IRRITATION. SYMPTOMS MAY INCLUDE STINGING, TEARING AND REDNESS. SKIN
 EXPOSURE MAY CAUSE MILD IRRITATION. SYMPTOMS MAY INCLUDE REDNESS AND
 ING ESTION: SINGLE DOSE ORAL TOXICITY IS LOW. SWALLOWING SMALL AMOUN
 NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS; SWALLOWING L
 AMOUNTS MAY BE HARMFUL. INHALATION: EXPOSURE TO MIST MAY CAUSE
 GI IRRITATION, CNS DEPRESSION AND KIDNEY DAMAGE. CHRONIC:CNS EFFECTS
 ABNORMALITIES, KIDNEY DAMAGE, BIRTH DEFECTS.

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