

VALVOLINE -- MAC'S NUMBER 13 RADIATOR RUST PREVENTIVE
MATERIAL SAFETY DATA SHEET
NSN: 803000N022718
Manufacturer's CAGE: 72527
Part No. Indicator: A
Part Number/Trade Name: MAC'S NUMBER 13 RADIATOR RUST PREVENTIVE

=====
General Information
=====

Company's Name: VALVOLINE INC
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 #: 800-274-5263
Company's Info Ph #: 606-264-7000
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SMJ
Date MSDS Prepared: 02AUG90
Safety Data Review Date: 17DEC91
MSDS Serial Number: BLYDT
Hazard Characteristic Code: C4

1300INHIB



RADIATOR RUST PREVENTIVE ; 10/26/1999 ;

=====
Ingredients/Identity Information
=====

Proprietary: YES
Ingredient: PROPRIETARY
Ingredient Sequence Number: 01

Proprietary: YES
Ingredient: PROPRIETARY
Ingredient Sequence Number: 02

Proprietary: YES
Ingredient: PROPRIETARY
Ingredient Sequence Number: 03

Proprietary: YES
Ingredient: PROPRIETARY
Ingredient Sequence Number: 04

Proprietary: YES
Ingredient: PROPRIETARY
Ingredient Sequence Number: 05

=====
Physical/Chemical Characteristics
=====

Appearance And Odor: OFF WHITE LIQUID.
Boiling Point: 212F,100C
Vapor Pressure (MM Hg/70 F): 17.50@68F
Vapor Density (Air=1): HVR/AIR
Specific Gravity: 0.98-0.99
Evaporation Rate And Ref: SLOWER THAN ETHER
Percent Volatiles By Volume: 70-85
pH: 9.1

=====
Fire and Explosion Hazard Data
=====

Flash Point: >200F,>93C
Lower Explosive Limit: 0.9%

Extinguishing Media: REGULAR FOAM, ALCOHOL FOAM OR WATER FOG.
Special Fire Fighting Proc: WEAR NIOSH/MSHA APPROVED SCBA & FULL
PROTECTIVE EQUIPMENT (FP N).
Unusual Fire And Expl Hazrds: NONE SPECIFIED BY MANUFACTURER.

=====
Reactivity Data
=====

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 MATERIALS CARBON DIOXIDE &
CARBON MONOXIDE.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT RELEVANT

=====
Health Hazard Data
=====

LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: YES
Health Haz Acute And Chronic: ACUTE:INHAL:MIST CAN CAUSE IRRITATION OF
NASAL & RESPIRATORY PASSAGES. INGEST:CAN CAUSE GI IRRITATION, NAUSEA,
VOMITING & DIARRHEA. EYE:CAN CAUSE MODERATE IRRITATION, REDNESS & TEARING.
SKIN:PROLONGED OR REPEATED CONTACT CAN CAUSE MODERATE IRRITATION, DEFATTING
& DERMATITIS.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NOT RELEVANT
Signs/Symptoms Of Overexp: SEE HEALTH HAZARDS.
Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.
Emergency/First Aid Proc: SKIN:THOROUGHLY WASH EXPOSED AREA W/SOAP &
WATER. EYE:FLUSH W/LARGE AMOUNTS OF WATER, LIFTING UPPER & LOWER LIDS
OCCASIONALLY. INGEST:DO NOT INDUCE VOMITING, KEEP PERSON WARM, QUIET & GET
MD. ASPIRATION OF MATERIAL INTO THE LUNGS DUE TO VOMITING CAN CAUSE
CHEMICAL PNEUMONITIS WHICH CAN BE FATAL. INHAL:REMOVE TO FRESH AIR. SUPPORT
BREATHING (GIVE O*2/ARTF RESP) (FP N).

=====
Precautions for Safe Handling and Use
=====

Steps If Matl Released/Spill: SMALL:ABSORB LIQ ON PAPER, VERMICULITE,
FLOOR ABSORB OR OTHER ABSORB MATL & TRANSFER TO HOOD. LGE:PERS NOT WEARING
PROT EQUIP SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS BEEN
COMPLETED. STOP SPILL AT SOURCE, DIKE AREA OF (SEE SUPP DATA)
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
Waste Disposal Method: SMALL:FLUSH DOWN DRAIN W/LARGE AMOUNTS OF WATER IN
ACCORDANCE W/APPLICABLE REGULATIONS. LARGE:CONTAMINATED ABSORBENT MAY BE
DEPOSITED IN A LANDFILL IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS.
Precautions-Handling/Storing: USE OR STORE ONLY W/ADEQUATE VENTILATION.
KEEP CONTAINER CLOSED WHEN NOT IN USE. FOR INDUS USE ONLY. DO NOT TRANSFER
TO UNLABELED CONTAINER.
Other Precautions: AVOID CONT W/EYES & PRLNGD/RPTD CONT W/SKIN. WEAR SFTY
GLASSES/GOGGS, RESISTANT GLOVES & OTHER APPROP PROT EQUIP ESSNTL FOR YOUR
OPERATION. DO NOT USE CUTTING/WELDING TORCH ON THIS CONTR (EVEN EMPTY).
KEEP OUT OF THE REACH (SEE SUPP DATA)

=====
Control Measures
=====

Respiratory Protection: NOT REQUIRED UNDER NORMAL CONDITIONS OF USE.
NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN (FP N).
Ventilation: NOT REQUIRED UNDER NORMAL CONDITIONS OF USE.
Protective Gloves: IMPERVIOUS GLOVES (FP N).

Eye Protection: CHEMICAL WORKERS GOGGLES (FP N).
Other Protective Equipment: NOT REQUIRED UNDER NORMAL CONDITIONS OF USE.
Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.
Suppl. Safety & Health Data: SPILL PROC:SPILL TO PVNT SPREADING, PUMP LIQ
TO SALVAGE TANK. REMAINING LIQ MAY BE TAKE UP ON SAND, CLAY, EARTH, FLOOR
ABSORB OR OTHER ABSORB MATL & SHOVELED INTO CONTRS. OTHER PREC:OF CHILDREN.
CONTRS OF THIS MATL MAY BE HAZ WHEN EMPTIED. SINCE EMPTIED CONTRS RETAIN
PROD RESIDUES (VAP, LIQ &/OR SOLID) (SEE INGRED 3)

=====
Transportation Data
=====

Trans Data Review Date: 92062
DOT PSN Code: ZZZ
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
IMO PSN Code: ZZZ
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION
IATA PSN Code: ZZZ
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
AFI PSN Code: ZZZ
AFI Prop. Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
Additional Trans Data: NOT REGULATED FOR TRANSPORTATION

=====
Disposal Data
==========
Label Data
=====

Label Required: YES
Technical Review Date: 17DEC91
Label Status: G
Common Name: MAC'S NUMBER 13 RADIATOR RUST PREVENTIVE
Chronic Hazard: NO
Signal Word: WARNING!
Acute Health Hazard-Slight: X
Contact Hazard-Moderate: X
Fire Hazard-Slight: X
Reactivity Hazard-None: X
Special Hazard Precautions: COMBUSTIBLE. ACUTE: INHALATION OF MIST CAN
CAUSE IRRITATION OF NASAL AND RESPIRATORY PASSAGES. SWALLOWING CAN CAUSE
GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA. CAN CAUSE
MODERATE EYE IRRITATION, REDNESS AND TEARING. PROLONGED/REPEATED SKIN
CONTACT CAN CAUSE MODERATE IRRITATION, DEFATTING AND DERMATITIS. AVOID
CONTACT WITH EYES/SKIN. USE/STORE ONLY WITH ADEQUATE VENTILATION. KEEP
CONTAINER CLOSED WHEN NOT IN USE. CHRONIC: NONE LISTED BY MANUFACTURER.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: VALVOLINE INC
Label P.O. Box: 14000
Label City: LEXINGTON
Label State: KY
Label Zip Code: 40512
Label Country: US
Label Emergency Number: 800-274-5263