

PENRAY -- 5001 WINDSHIELD WASHER ANTI-FREEZE  
MATERIAL SAFETY DATA SHEET  
PENRAYNSN: 793000F015153  
Manufacturer's CAGE: OWT79  
Part No. Indicator: A  
Part Number/Trade Name: 5001 WINDSHIELD WASHER ANTI-FREEZE

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General Information  
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Company's Name: PENRAY COMPANY  
Company's Street: 440 DENNISTON COURT  
Company's City: WHEELING  
Company's State: IL  
Company's Zip Code: 60090  
Company's Emerg Ph #: (800) 942-5969  
Company's Info Ph #: (312) 459-5000  
Record No. For Safety Entry: 001  
Tot Safety Entries This Stk#: 001  
Date MSDS Prepared: 25JUL89  
Safety Data Review Date: 04APR91  
MSDS Preparer's Name: R. W. KLUG  
Preparer's Company: PENRAY COMPANY  
Preparer's St Or P. O. Box: 440 DENNISTON COURT  
Preparer's City: WHEELING  
Preparer's State: IL  
Preparer's Zip Code: 60090  
MSDS Serial Number: BKCQV

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Ingredients/Identity Information  
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Proprietary: NO  
Ingredient: METHYL ALCOHOL (METHANOL) (SARA III)  
Ingredient Sequence Number: 01  
Percent: 94%  
NIOSH (RTECS) Number: PC1400000  
CAS Number: 67-56-1  
OSHA PEL: S,200PPM/250STEL  
ACGIH TLV: S,200PPM/250STEL; 93  
Other Recommended Limit: 200 PPM

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Physical/Chemical Characteristics  
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Appearance And Odor: BLUE LIQUID W/SLIGHT ALCOHOL ODOR.  
Boiling Point: 148F  
Vapor Pressure (MM Hg/70 F): 96  
Vapor Density (Air=1): 1.11  
Specific Gravity: 0.791  
Evaporation Rate And Ref: (BU AC = 1): 2  
Solubility In Water: 100%  
Percent Volatiles By Volume: 94%

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Fire and Explosion Hazard Data  
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Flash Point: 53F  
Flash Point Method: TCC  
Lower Explosive Limit: 6%  
Upper Explosive Limit: 36.5%

Extinguishing Media: ALCOHOL FOAM, CO2, & DRY CHEMICAL  
Special Fire Fighting Proc: WEAR POSITIVE PRESSURE SELF-CONTAINED  
BREATHING APPARATUS. USE WATER SPRAY TO KEEP FIRE-EXPOSED SURFACES COOL &  
TO REDUCE THE INTENSITY OF THE FLAMES.  
Unusual Fire And Expl Hazrds: VAPORS ARE >AIR & MAY TRAVEL GREAT DISTANCES  
ALONG THE GROUND TO AN IGNITION SOURCE & FLASHBACK. PRODUCT MAY BURN W/  
LITTLE OR NO FLAME. FLAMMABLE LIQUID.

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Reactivity Data  
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Stability: YES  
Cond To Avoid (Stability): IGNITION SOURCES, HEAT, SPARKS, & OPEN FLAMES  
Materials To Avoid: SULFURIC ACID & STRONG OXIDIZING AGENTS  
Hazardous Decomp Products: CO  
Hazardous Poly Occur: NO  
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Health Hazard Data  
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Route Of Entry - Inhalation: YES  
Route Of Entry - Skin: YES  
Route Of Entry - Ingestion: YES  
Health Haz Acute And Chronic: EYES: INJURY, PAIN, TEARING, & BLURRED  
VISION. SKIN: DRYNESS, CRACKING, & IRRITATION. INHALATION: CNS/PANCREAS  
DAMAGE, DEATH, STUPOR, HEADACHE, NAUSEA, DIZZINESS, & UNCONSCIOUSNESS.  
INGESTION: SLUGGISHNESS, NAUSEA, VOMITING, POISONOUS, ACIDOSIS, EFFECTS  
OPTIC NERVE RESULTING IN BLINDNESS, & FATAL.  
Carcinogenicity - NTP: NO  
Carcinogenicity - IARC: NO  
Carcinogenicity - OSHA: NO  
Explanation Carcinogenicity: NONE  
Signs/Symptoms Of Overexp: EYES: INJURY, PAIN, TEARING, & BLURRED VISION.  
SKIN: DRYNESS, CRACKING, & IRRITATION. INHALATION: CNS/PANCREAS DAMAGE,  
SLUGGISHNESS, NAUSEA, VOMITING, POISONOUS, ACIDOSIS, EFFECTS OPTIC NERVE  
RESULTING IN BLINDNESS, & FATAL.  
Emergency/First Aid Proc: EYE: FLUSH W/WATER FOR 15 MINS. SKIN: WASH  
W/LARGE AMOUNTS OF SOAP/WATER. INHALATION: REMOVE TO FRESH AIR. RESTORE  
NORMAL BREATHING. INGESTION: INDUCE VOMITING IF CONSCIOUS BY GIVING 2  
GLASSES OF WATER/PRESSING FINGER DOWN THROAT. NEVER ADMINISTER LIQUIDS TO  
UNCONSCIOUS PERSON. ADMINISTER A 10% SOLUTION OF ETHANOL IN 5% AQUEOUS  
DEXTROSE AS AN ANTIDOTE. OBTAIN MEDICAL ATTENTION IN ALL CASES.  
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Precautions for Safe Handling and Use  
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Steps If Matl Released/Spill: ELIMINATE ALL IGNITION SOURCES. VENTILATE  
AREA. EVACUATE AREA OR WEAR PROTECTIVE EQUIPMENT. CONTAIN & COLLECT W/INERT  
ABSORBENT. PLACE IN CLOSED CONTAINER W/NON-SPARKING TOOLS. PREVENT PRODUCT  
FROM ENTERING WATER SUPPLY.  
Waste Disposal Method: DISPOSE OF IN ACCORDANCE W/ALL LOCAL, STATE, &  
FEDERAL REGULATIONS. FLAMMABLE LIQUID.  
Precautions-Handling/Storing: STORE IN COOL, WELL-VENTILATED AREA. KEEP  
AWAY FROM HEAT, SPARKS, & OPEN FLAME. KEEP CONTAINERS CLOSED.  
Other Precautions: WHEN TRANSFERRING PRODUCT FOLLOW PROPER GROUNDING  
PROCEDURES. AVOID CONTACT W/SKIN & EYES.  
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Control Measures  
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Respiratory Protection: USE AIR-SUPPLIED MASK IN CONFINED AREA.

Ventilation: PROVIDE SUFFICIENT MECHANICAL/LOCAL EXHAUST VENTILATION TO KEEP <TLV.

Protective Gloves: NEOPRENE OR RUBBER

Eye Protection: SPLASH GOGGLES & GLASSES

Other Protective Equipment: IMPERVIOUS CLOTHING, EYEWASH STATIONS, SAFETY SHOWER, & APRON

Work Hygienic Practices: REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

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Transportation Data  
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Disposal Data  
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Label Data  
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Label Required: YES

Label Status: G

Common Name: 5001 WINDSHIELD WASHER ANTI-FREEZE

Special Hazard Precautions: EYES: INJURY, PAIN, TEARING, & BLURRED VISION. SKIN: DRYNESS, CRACKING, & IRRITATION. INHALATION: CNS/PANCREAS DAMAGE, SLUGGISHNESS, NAUSEA, VOMITING, POISONOUS, ACIDOSIS, EFFECTS OPTIC NERVE RESULTING IN BLINDNESS, & FATAL. EYES: INJURY, PAIN, TEARING, & BLURRED VISION. SKIN: DRYNESS, CRACKING, & IRRITATION. INHALATION: CNS/PANCREAS DAMAGE, DEATH, STUPOR, HEADACHE, NAUSEA, DIZZINESS, & UNCONSCIOUSNESS. INGESTION: SLUGGISHNESS, NAUSEA, VOMITING, POISONOUS, ACIDOSIS, EFFECTS OPTIC NERVE RESULTING IN BLINDNESS, & FATAL.

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