

**Global Parts Order Processing
Material Safety Data Sheet
MORAN ST. CLAIR CHRYSLER JEEP**

C H R Y S L E R
HAZARD COMMUNICATION SHEET

233007 DRAFT PART/COMMTY CD: 04267020AB
PREPARATION DATE: 08-28-06 STNDRD: N/AV SUPPLIER: 68612 MFGR: 03500
OSHA HAZ: YES HAZWOPER HAZ: YES CONS PROD/HAZ SUB: YES

*** SECTION 01 - PRODUCT INFORMATION ***

MFG BY: PART SALES & SERVICE CHRYSLER
26311 LAWRENCE AVE CENTERLINE MI 48015
EMERGENCY PHONE: 248-512-8002 AFTER HOURS: 248-576-8888
DIST BY: PART SALES & SERVICE CHRYSLER
26311 LAWRENCE AVE CENTERLINE MI 48015
EMERGENCY PHONE: 248-512-8002 AFTER HOURS: 248-576-8888
CHRYSLER INDUSTRIAL HYGIENE: 248-512-8260 AFTER HOURS: 248-576-8888
BRAND NAME: ANTIFREEZE-COOLANT
MFG ID : N/AV
DESCRIPTION: ANTIFREEZE-COOLANT

*** SECTION 02 - INGREDIENTS ***

HAZARDOUS INGREDIENTS: PERCENT
COMM NAME / CAS NO & CHEM NAME: BY WGT OSHA ACGIH CHRYS UNITS NOTATIONS
EXISTING INGREDIENTS
ETHYLENE GLYCOL 60-100 W N/AP N/AP N/AP N/AP
000107-21-1 1,2-ETHANEDIOL (9CI) T
C 50 39 50
DIETHYLENE GLYCOL 1-5 W N/AP N/AP N/AP N/AP
000111-46-6 ETHANOL, 2,2'-OXYBIS
POTASSIUM HYDROXIDE 1-5 W N/AP N/AP N/AP N/AP
001310-58-3 POTASSIUM HYDROXIDE C 2 2 2
GENERIC DESC: MIXTURE(S) OF THE FOLLOWING: ALCOHOL(S), GLYCOL(S), SOLVENT(S),
ALKALI, INORGANIC ACID(S), METAL SALT(S) AND ORGANIC SALT(S).

*** SECTION 03 - PHYSICAL DATA ***

BOILING POINT : 339 TO 348 F SOLUB IN WATER: COMPLETE (IN ALL PROPOR
VAPOR PRESSURE: 0 MM HG AT 68 F EVAP. RATE: 0.000 REF: BUTYLACETATE
VAPOR DENSITY : 2.100 AT N/AP SPECIFIC GRAVITY: 1.120 AT N/AV
PH AT FULL STRENGTH: 10.5 PH AT REC. DILUT: N/AP
%VOLATILE BY VOL : 97.0 VOLATILE ORGANIC COMP: N/AP N/AP
ODOR THRESHOLD: N/AV PPM FOR % POPULATION
FREEZING POINT: 0.0 F COEFF. OF WATER/OIL DIST: N/AV
APPEARANCE & ODOR: COLOR: GREEN..... STATE: LIQUID..... ODOR: MILD.....

*** SECTION 04 - FIRE AND EXPLOSION DATA ***

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FLASH POINT: 247 F N/AV IGN TEMP: 748 F LEL: 3.200% UEL: 15.300%

SPECIAL FIRE & EXPLOSION HAZARDS:

FLAMMABLE GAS IS RELEASED UPON HEATING TO HIGH TEMPERATURES.

EXTINGUISHING MEDIA:

WATER FOG, ALCOHOL FOAM, FOAM, DRY CHEMICAL, CARBON DIOXIDE. DO NOT USE WATER IN STRAIGHT STREAMS.

SPECIAL FIREFIGHTING PROCEDURES:

USE PROTECTIVE CLOTHING. USE SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.

SENSITIVE TO MECHANICAL IMPACT?: NO SENSITIVE TO STATIC DISCHARGE?: NO

HAZARDOUS COMBUSTION PRODUCTS:

TOXIC FUMES OR VAPORS, ALDEHYDES, ACID(S), ORGANIC COMPOUNDS, CARBON MONOXIDE AND CARBON DIOXIDE.

FLAME PROJECTION: N/AP

*** SECTION 05 - HEALTH HAZARD DATA ***

EFFECTS OF OVEREXPOSURE - ACUTE & CHRONIC:

<<---INHALATION--->> ACUTE EXPOSURE-VAPOR AND/OR MIST MAY PRODUCE THE FOLLOWING: NAUSEA, VOMITING, ANESTHETIC EFFECTS AND DIZZINESS. <<---SKIN CONTACT--->> CHRONIC EXPOSURE MAY PRODUCE THE FOLLOWING: SENSITIZATION. DERMATITIS. CONTACT WITH OPEN WOUNDS MAY CAUSE THE FOLLOWING: MAY BE ABSORBED THROUGH SKIN IN LETHAL AMOUNTS. <<---EYE CONTACT--->> MAY PRODUCE THE FOLLOWING: IRRITATION AND TEARING. <<---INGESTION--->> MAY BE HARMFUL OR FATAL IF SWALLOWED. HIGH CONCENTRATION MAY PRODUCE THE FOLLOWING: ACIDOSIS, RESULTING IN SEVERE STOMACH PAIN, NAUSEA, COMA OR DEATH. PULMONARY CHANGES AND MAY CAUSE SYSTEMIC TOXICITY (I.E. MAY CAUSE EFFECTS THROUGH THE WHOLE BODY). <<---SPECIAL TOXICITY--->> DAMAGE TO THE NERVOUS SYSTEM AND/OR BRAIN DAMAGE, KIDNEY DAMAGE AND LIVER DAMAGE.

EMERGENCY FIRST AID PROCEDURES:

<<---INHALATION--->> REMOVE TO FRESH AIR AT ONCE. IF BREATHING IS DIFFICULT, GIVE OXYGEN. ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. CARDIAC RESUSCITATION IF INDICATED. CONTACT A PHYSICIAN. <<---SKIN CONTACT--->> REMOVE CONTAMINATED CLOTHING. IMMEDIATELY FLUSH CONTAMINATED AREA WITH LARGE AMOUNTS OF WATER. IF CONDITION PERSISTS, CONSULT A PHYSICIAN. <<---EYE CONTACT--->> RINSE EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER, OCCASIONALLY LIFTING BOTH UPPER AND LOWER LIDS. CONTINUE FOR 15 MINUTES. IF CONDITION PERSISTS, CONSULT A PHYSICIAN. <<---INGESTION--->> DO NOT INDUCE VOMITING. IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER OR MILK. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CONTACT A PHYSICIAN. NOTE TO PHYSICIAN: CONTAINS ETHYLENE GLYCOL. ADULT HUMAN ORAL LETHAL DOSE IS APPROXIMATELY 100ML (3 OZ.). THE PRINCIPAL TOXIC EFFECT OF ETHYLENE GLYCOL IS KIDNEY DAMAGE. EARLY ADMINISTRATION OF I.V. ETHANOL AS A 5% SOLUTION IN SODIUM BICARBONATE AT ABOUT 10 ML PER HOUR MAY BLOCK THE FORMATION OF NEPHROTOXIC METABOLITES. HEMODIALYSIS MAY BE NEEDED.

*** SECTION 06 - REACTIVITY DATA ***

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STABILITY: STABLE

CONDITIONS TO AVOID:

HIGH TEMPERATURE, SPARKS OR OPEN FLAME.

MATERIALS TO AVOID:

STRONG ACID AND STRONG OXIDIZING AGENTS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

POLYMERIZATION CONDITIONS TO AVOID:

POLYMERIZATION WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS:

THERMAL DECOMPOSITION MAY PRODUCE THE FOLLOWING: TOXIC FUMES OR VAPORS,
ORGANIC COMPOUNDS, ACID(S), CARBON MONOXIDE AND CARBON DIOXIDE.

*** SECTION 07 - SPILL OR LEAK PROCEDURES ***

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

PROVIDE ADEQUATE VENTILATION. WEAR PROTECTIVE CLOTHING. ELIMINATE ALL
IGNITION SOURCES (FLAMES, HOT SURFACES AND ELECTRICAL, STATIC OR FRICTIONAL
SPARKS). EVACUATE PERSONNEL NOT EQUIPPED WITH PROTECTIVE CLOTHING AND
EQUIPMENT. SMALL SPILL-ABSORB ON AN INERT MATERIAL. LARGE SPILL-CONTAIN WITH
DIKE. PUMP INTO STORAGE CONTAINER. ADVISE AUTHORITIES IF PRODUCT HAS ENTERED
OR MAY ENTER SEWERS, WATERCOURSES OR EXTENSIVE LAND AREAS.

WASTE DISPOSAL METHODS:

DISPOSE OF IN A MANNER CONSISTENT WITH STATE, PROVINCIAL, LOCAL, AND
FEDERAL DISPOSAL REGULATIONS.

*** SECTION 08 - SPECIAL PROTECTION ***

RESPIRATORY PROTECTION:

IF THE ALLOWABLE LIMIT OF THE PRODUCT OR ANY COMPONENT IS EXCEEDED, USE THE
FOLLOWING: AIRLINE RESPIRATOR, CONSTANT FLOW, SELF-CONTAINED BREATHING
APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER
POSITIVE PRESSURE MODE OR ORGANIC VAPOR RESPIRATOR.

VENTILATION TYPE:

TO MAINTAIN THE TLV, THE FOLLOWING MAY BE NEEDED: GOOD GENERAL VENTILATION
AND/OR LOCAL EXHAUST VENTILATION.

PROTECTIVE GLOVES:

RECOMMENDED. WHEN HANDLING THE LIQUID, USE THE FOLLOWING: NATURAL RUBBER
GLOVES, NEOPRENE GLOVES, NITRILE RUBBER GLOVES OR POLYVINYL ALCOHOL (PVA)
GLOVES.

EYE PROTECTION:

RECOMMENDED. THE FOLLOWING IS REQUIRED: DO NOT WEAR CONTACT LENSES.
CHEMICAL GOGGLES AND FULL FACE SHIELD.

OTHER PROTECTIVE EQUIPMENT:

PREVENT PROLONGED SKIN CONTACT WITH CONTAMINATED CLOTHING. WASH
CONTAMINATED CLOTHING BEFORE REUSE. WEAR LONG SLEEVES. A SAFETY SHOWER MAY
BE NEEDED FOR EMERGENCY SITUATIONS. AN EYE WASH MAY BE NEEDED FOR EMERGENCY

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SITUATIONS.

*** SECTION 09 - SPECIAL PRECAUTIONS ***

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE:

STORE IN A COOL, DRY PLACE. STORE IN A WELL VENTILATED AREA. STORE SEPARATE FROM INCOMPATIBLE MATERIALS. USE WITH ADEQUATE VENTILATION. KEEP FROM HEAT, SPARK OR OPEN FLAMES. REACTS WITH ACIDS. REACTS WITH OXIDIZERS.

OTHER PRECAUTIONARY MEASURES:

AVOID BREATHING VAPOR. AVOID SKIN CONTACT. AVOID EYE CONTACT. AVOID INGESTION. DO NOT SMOKE OR EAT WHEN HANDLING THIS SUBSTANCE; WASH THOROUGHLY AFTER USING. REMOVE CONTAMINATED CLOTHING AND LAUNDRY BEFORE REUSE. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.

*** SECTION 10 - WASTE LABELING INFORMATION ***

DOT LABELING INFORMATION (49 CFR 100-199)

ID#: N/AP ERG#: HAZARD CLASS - PRMY: N/AP PACKING GROUP: N/AP
NOT HAZARDOUS PER DOT REGULATIONS

RCRA INFORMATION (40 CFR 122-124, 260-265)

INFORMATION UNAVAILABLE AT THIS TIME