Global Parts Order Processing Material Safety Data Sheet SELKIRK CHRYSLER (MB) LTD.

$\begin{tabular}{ll} C & H & R & Y & S & L & E & R \\ $HAZARD$ & $COMMUNICATION$ & $SHEET$ \\ \end{tabular}$

294180 DRAFT PART/COMMTY CD: 0VU00100 EFFECTIVE DATE: 08/03/11 SUPPLIER: 86056 MFGR: 03500 STANDARD: N/AV *** SECTION 01 - PRODUCT INFORMATION *** ------MFG BY: PART SALES & SERVICE CHRYSLER 26311 LAWRENCE AVE CENTERLINE ΜI 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: MOPAR PENETRATING FLUID MFG ID : N/AV DESCRIPTION: LUBRICANT-POWERTRAIN, BODY PRODUCT IDENTIFICATION NUMBER (PIN): UN1950 ______ *** SECTION 02 - INGREDIENTS *** HAZARDOUS INGREDIENTS: PERCENT CHRYSLER COMM NAME / CAS NO & CHEM NAME: BY WGT TWA STEL CEIL UNITS NOTATIONS ***EXISTING INGREDIENTS*** METHYL ISOBUTYL CARBINOL 5-10 25 40 N/AP PPM 000108-11-2 2-PENTANOL, 4-METHYL- LD50: 2590.000MG/KG ORL RAT IDLH: 400 PPM LC50: N/AV N/AV N/A N/A BENZENE, 1,3,5-TRIMETHYL- (9CI) 1-5 25 N/AP N/AP PPM 000108-67-8 BENZENE, 1,3,5-TRIMETH LD50: N/AV N/AV N/A N/A IDLH: N/AP LC50: 24.000GM/M3 IHL RAT ETHYLENE GLYCOL BUTYL ETHER 5-10 25 N/AP N/AP PPM 000111-76-2 ETHANOL, 2-BUTOXY- (8C LD50: 470.000MG/KG ORL RAT **A**3 IDLH: 700 PPM LC50: 926.010PPM IHL MUS XYLENE 1-5 100 150 N/AP PPM 001330-20-7 BENZENE, DIMETHYL- (9C LD50: 4300.000MG/KG ORL RAT IDLH: 1000 PPM LC50: 5000.000PPM IHL RAT AMMONIUM HYDROXIDE ((NH4)(OH)) 1-5 25 N/AV N/AV PPM 001336-21-6 AMMONIUM HYDROXIDE ((N LD50: 350.000MG/KG ORL RAT IDLH: N/AV LC50: N/AV N/AV N/A N/A DIETHYL BENZENE 1-5 10 N/AP N/AP PPM 025340-17-4 BENZENE, DIETHYL- (8CI LD50: N/AV N/AV N/A N/A IDLH: N/AV LC50: N/AV N/AV N/A N/A AROMATIC SOLVENT 100 10-30 50 400 N/AP PPM 064742-95-6 SOLVENT NAPHTHA, PETRO LD50: N/AV N/AV N/A N/A IDLH: 1100 PPM LC50: N/AV N/AV N/A N/A PETROLEUM GASES, LIQUEFIED, SWEET 10-30 1000 N/AP N/AP PPM

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068476-86-8 PETROLEUM GASES, LIQUE LD50: N/AV
                                             N/AV N/A N/A
    IDLH: 9000 PPM
                               LC50: N/AV
                                             N/AV N/A N/A
PSEUDOCUMENE
                               10-30 25 N/AP N/AP PPM
000095-63-6 BENZENE, 1,2,4-TRIMETH LD50:
                                          5.000GM/KG ORL RAT
    IDLH: N/AP
                                LC50:
                                        18.000GM/M3 IHL RAT
CUMENE
                                1-5
                                       50 N/AP N/AP PPM
000098-82-8 BENZENE, (1-METHYLETHY LD50: 1400.000MG/KG ORL RAT
   IDLH: 900 PPM
                                LC50: 17465.540MG/M3 IHL MUS
DISTILLATES (PETROLEUM), HYDROTRE 1-5
                                       5
                                             10 N/AP MG/M3
064742-52-5A DISTILLATES (PETROLEUM LD50: 22.000GM/KG ORL MUS
    IDLH: N/AP
                               LC50: N/AV
                                             N/AV N/A N/A
HYDROTREATED LIGHT NAPHTHENIC DIS
                              1-5
                                            10 N/AP MG/M3
                                       5
064742-53-6A DISTILLATES (PETROLEUM LD50:
                                         22.000GM/KG ORL MUS
   IDLH: N/AP
                                LC50: N/AV
                                           N/AV N/A N/A
OLEIC ACID
                                5-10 N/AP N/AP N/AP N/AP
000112-80-1 9-OCTADECENOIC ACID (Z LD50: 74.000GM/KG ORL RAT
   IDLH: N/AP
                               LC50: N/AV
                                             N/AV N/A N/A
GENERIC DESC: MIXTURE(S) OF THE FOLLOWING: SOLVENT(S), WATER, PETROLEUM OIL,
            METAL OXIDE(S) AND NITROGEN COMPOUND(S).
 FOR EXPLANATION OF "NOTATIONS", SEE THE HAZARD COMMUNICATION SHEET
 EXPLANATIONS PAGE.
 CONSULT LOCAL AUTHORITIES FOR ACCEPTABLE EXPOSURE LIMITS.
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*** SECTION 03 - PHYSICAL DATA ***

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BOILING POINT : N/AV
                          C
                             SOLUB IN WATER: MODERATE ( 1 - 10% )
VAPOR PRESSURE: N/AV
                               EVAP. RATE: N/AV REF: N/AV
VAPOR DENSITY : > 1.000 AT
                               SPECIFIC GRAVITY: 0.906 AT 15 C
PH AT FULL STRENGTH: < 10.5
                              PH AT REC. DILUT: N/AV
%VOLATILE BY VOL : N/AV
                              VOLATILE ORGANIC COMP: 4.68470 LB/GAL
ODOR THRESHOLD: N/AV
                       PPM FOR
                                % POPULATION
FREEZING POINT: N/AV
                               COEFF. OF WATER/OIL DIST: N/AV
APPEARANCE & ODOR: FORM: SPRAY OR AEROSOL.... ODOR: SOLVENT.... AND ODOR:
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*** SECTION 04 - FIRE AND EXPLOSION DATA ***

FLASH POINT: 43 C TCC IGN TEMP: N/AV LEL: N/AV UEL: N/AV SPECIAL FIRE & EXPLOSION HAZARDS:

KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME. CLOSED CONTAINER MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS. NEVER USE WELDING OR CUTTING TORCH ON OR NEAR CONTAINER (EVEN EMPTY) BECAUSE PRODUCT (OR RESIDUE) CAN IGNITE EXPLOSIVELY. VAPOR OR MIST ACCUMULATIONS MAY FLASH AND/OR EXPLODE IF IGNITED. CONTENTS UNDER PRESSURE. MAY EXPLODE IF EXPOSED TO HEAT OR FLAME. MATERIAL IS HIGHLY VOLATILE AND READILY GIVES OFF VAPORS/GAS WHICH MAY TRAVEL ALONG THE GROUND OR BE MOVED BY VENTILATION AND Page 2 of 5

CAUSE FLASH FIRES OR BE IGNITED EXPLOSIVELY BY PILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING, ELECTRIC MOTORS, OR OTHER SOURCES OF IGNITION AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

EXTINGUISHING MEDIA:

LARGE FIRE-ALCOHOL FOAM OR WATER FOG. SMALL FIRE-CARBON DIOXIDE OR DRY CHEMICAL.

SPECIAL FIREFIGHTING PROCEDURES:

USE WATER TO COOL FIRE EXPOSED CONTAINERS. DO NOT USE WATER IN STRAIGHT STREAMS. FIGHT FIRE FROM PROTECTED AREA. USE PROTECTIVE CLOTHING. EVACUATE PERSONNEL FROM AREA.

FLAMMABILITY CONDITIONS:

CONTENTS UNDER PRESSURE. MAY EXPLODE IF EXPOSED TO HEAT OR FLAME. VAPOR OR MIST ACCUMULATIONS MAY FLASH AND/OR EXPLODE IF IGNITED. MATERIAL IS HIGHLY VOLATILE AND READILY GIVES OFF VAPORS/GAS WHICH MAY TRAVEL ALONG THE GROUND OR BE MOVED BY VENTILATION AND CAUSE FLASH FIRES OR BE IGNITED EXPLOSIVELY BY PILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING, ELECTRIC MOTORS, OR OTHER SOURCES OF IGNITION AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

SENSITIVE TO MECHANICAL IMPACT?: N/AV SENSITIVE TO STATIC DISCHARGE?: N/AV HAZARDOUS COMBUSTION PRODUCTS:

CARBON MONOXIDE AND CARBON DIOXIDE, VARIOUS HYDROCARBONS.

FLAME PROJECTION: > 3 CM

FLAMMABILITY: YES

*** SECTION 05 - REACTIVITY DATA ***

STABILITY: STABLE

CONDITIONS TO AVOID:

HIGH TEMPERATURE, SPARKS OR OPEN FLAME, STATIC ELECTRICITY.

MATERIALS TO AVOID:

STRONG OXIDIZING AGENTS, PEROXIDES, STRONG ACID.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

POLYMERIZATION CONDITIONS TO AVOID:

POLYMERIZATION WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS:

THERMAL DECOMPOSITION MAY PRODUCE THE FOLLOWING: CARBON MONOXIDE AND CARBON DIOXIDE AND VARIOUS HYDROCARBONS.

*** SECTION 06 - TOXICOLOGICAL PROPERTIES ***

EFFECTS OF OVEREXPOSURE-ACUTE & CHRONIC:

<<---INHALATION--->> HIGH CONCENTRATION MAY PRODUCE THE FOLLOWING:
IRRITATION OF UPPER RESPIRATORY TRACT AND ACUTE NERVOUS SYSTEM DEPRESSION
CHARACTERIZED BY HEADACHE, DIZZINESS, STAGGERING, CONFUSION, UNCONSCIOUSNESS
OR COMA. <<---SKIN CONTACT---> MAY PRODUCE THE FOLLOWING: IRRITATION AND
DEFATTING AND DRYING OF SKIN. MAY BE ABSORBED THROUGH SKIN. <<---EYE
CONTACT--->> VAPOR MAY PRODUCE THE FOLLOWING: IRRITATION AND TEARING. LIQUID
MAY PRODUCE THE FOLLOWING: PAIN AND IRRITATION AND TEARING.

NAUSEA, VOMITING AND DIARRHEA. ASPIRATION (GOING DOWN THE WRONG PIPE INTO THE WINDPIPE) MAY CAUSE THE FOLLOWING: CHEMICAL PNEUMONITIS (AN INFLAMMATION OF THE LUNGS SIMILAR TO PNEUMONIA, WHICH IS CAUSED BY GETTING THE LIQUID FORM OF A CHEMICAL INTO THE LUNGS). <---SPECIAL TOXICITY--->> CHRONIC EXPOSURE TO HIGH CONCENTRATIONS MAY PRODUCE THE FOLLOWING: KIDNEY DAMAGE AND LIVER DAMAGE. CHRONIC EXPOSURE TO HIGH CONCENTRATIONS MAY PRODUCE THE FOLLOWING: MAY DAMAGE BLOOD FORMING ORGANS. CHRONIC EXPOSURE TO HIGH CONCENTRATIONS MAY PRODUCE THE FOLLOWING: BRAIN DAMAGE AND NERVOUS SYSTEM DISORDERS. COMPONENT(S)-MAY AFFECT UNBORN CHILD.

TOXICOLOGICALLY SYNERGISTIC PRODUCTS:

N/AV

PRODUCT LD50: N/AV PRODUCT LC50: N/AV

N/AV

N/AV

N/AV

N/AV

N/AV N/AV

*** SECTION 07 - PREVENTIVE MEASURES ***

..... RESPIRATORY PROTECTION:

NO SPECIAL PROTECTION NEEDED UNDER NORMAL CONDITIONS. IF THE ALLOWABLE LIMIT OF THE PRODUCT OR ANY COMPONENT IS EXCEEDED, USE THE FOLLOWING: ORGANIC VAPOR RESPIRATOR.

VENTILATION TYPE:

GOOD GENERAL VENTILATION. IF THE ALLOWABLE LIMIT OF THE PRODUCT OR ANY COMPONENT IS EXCEEDED, USE THE FOLLOWING: LOCAL EXHAUST VENTILATION. PROTECTIVE GLOVES:

RECOMMENDED. NEOPRENE GLOVES OR NITRILE RUBBER GLOVES.

EYE PROTECTION:

SAFETY GLASSES WITH SIDE SHIELDS OR CHEMICAL GOGGLES. DO NOT WEAR CONTACT LENSES.

OTHER PROTECTIVE EQUIP:

A SAFETY SHOWER MAY BE NEEDED FOR EMERGENCY SITUATIONS. AN EYE WASH MAY BE NEEDED FOR EMERGENCY SITUATIONS.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

ELIMINATE ALL IGNITION SOURCES (FLAMES, HOT SURFACES AND ELECTRICAL, STATIC OR FRICTIONAL SPARKS). AVOID BREATHING VAPORS. VENTILATE AREA. VENTILATE AREA WITH EXPLOSION-PROOF VENTILATION EQUIPMENT. WEAR PROTECTIVE CLOTHING. CONTAIN WITH DIKE. DO NOT FLUSH INTO SEWER SYSTEM. ADVISE AUTHORITIES IF PRODUCT HAS ENTERED OR MAY ENTER SEWERS, WATERCOURSES OR EXTENSIVE LAND AREAS. ABSORB ON AN INERT MATERIAL AND REMOVE WITH NON-SPARKING TOOLS.

WASTE DISPOSAL METHODS:

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

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE:

FLAMMABLE. STORE IN EXPLOSION RESISTANT/FLAMMABLE LIQUID STORAGE ROOM. USE WITH ADEQUATE VENTILATION. KEEP FROM HEAT, SPARK OR OPEN FLAMES. BOND AND GROUND ALL CANS, DRUMS, MIXERS ETC. TO PREVENT STATIC SPARKS. TAKE "NO SMOKING" PRECAUTIONS. STORE AWAY FROM DIRECT SUNLIGHT. DO NOT PUNCTURE, DROP OR SLIDE CONTAINERS. DO NOT SMOKE OR EAT WHEN HANDLING THIS SUBSTANCE; WASH Page 4 of 5

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THOROUGHLY AFTER USING. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE. REACTS WITH OXIDIZERS. DO NOT CUT EMPTY CONTAINER WITH A TORCH. DO NOT CUT, GRIND, WELD OR DRILL ON OR NEAR CONTAINER. STORE AT TEMPERATURE BELOW 100 F (38 C). DO NOT FREEZE.

OTHER PRECAUTIONARY MEASURES:

AVOID BREATHING VAPOR. AVOID SKIN CONTACT. AVOID EYE CONTACT. CONTENTS ARE UNDER PRESSURE. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED, SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID). MAINTAIN GOOD HOUSEKEEPING AND HYGIENIC PRACTICES. KEEP OUT OF REACH OF CHILDREN.

*** SECTION 08 - FIRST AID MEASURES ***

EMERGENCY FIRST AID PROCEDURES

<<---INHALATION--->> REMOVE TO FRESH AIR AT ONCE. ARTIFICIAL RESPIRATION IF
BREATHING HAS STOPPED. CARDIAC RESUSCITATION IF INDICATED. CONTACT A
PHYSICIAN. <<---SKIN CONTACT--->> REMOVE CONTAMINATED CLOTHING. WASH WITH
SOAP AND WATER. APPLY SKIN CREAM IF DEFATTING OF SKIN OCCURS. IF CONDITION
PERSISTS, CONSULT A PHYSICIAN. <<---EYE CONTACT--->> REMOVE CONTACT LENSES
TO ASSURE COMPLETE FLUSHING. 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.
IF VOMITING OCCURS, KEEP HEAD BELOW HIPS TO PREVENT LIQUID FROM SEEPING INTO
THE WINDPIPE AND LUNGS.

*** SECTION 09 - PREPARED BY INFORMATION ***

DATA SHEET PREPARED BY:

INDUSTRIAL HYGIENE DEPARTMENT

CHRYSLER

PHONE: 248-512-8260

PREPARED BY: KP RIDELLA

REVIEWED BY:

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