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MSDS

Common Name: VALVOLINE MERCON V AUTOMATIC TRANSMISSION FLUID

Manufacturer: ASHLAND CHEMICAL

MSDS Revision Date: 5/12/2008

Grainger Item Number(s): 2MWD8

Manufacturer Model Number(s):

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ASHLAND (R*)

SAFETY DATA SHEET

VALVOLINE (R*) MERCON (R*) V AUTOMATIC TRANSMISSION FLUID

VV320

REVISION DATE: 05/12/2008

PRINT DATE: 7/10/2008

MSDS NUMBER: R0394062

VERSION: 4.2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION



AND OF THE COMPANY/UNDERTAKING

ASHLAND
P.O. BOX 2219
COLUMBUS, OH 43216

REGULATORY INFORMATION NUMBER: 1-800-325-3751

TELEPHONE: 614-790-3333

Grainger MSDS Lookup

EMERGENCY TELEPHONE:
1-800-ASHLAND
(1-800-274-5263)

PRODUCT NAME: VALVOLINE(R*) MERCON(R*) V AUTOMATIC TRANSMISSION FLUID

PRODUCT CODE: VV320

PRODUCT USE DESCRIPTION: NO DATA

2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

APPEARANCE: LIQUID, RED

CAUTION!

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

POTENTIAL HEALTH EFFECTS:

ROUTES OF EXPOSURE: INHALATION, SKIN CONTACT, EYE CONTACT, INGESTION

EYE CONTACT: UNLIKELY TO CAUSE EYE IRRITATION OR INJURY.

SKIN CONTACT:

UNLIKELY TO CAUSE SKIN IRRITATION OR INJURY. PROLONGED OR REPEATED CONTACT MAY DRY AND CRACK THE SKIN. PASSAGE OF THIS MATERIAL INTO THE BODY THROUGH THE SKIN IS POSSIBLE, BUT IT IS UNLIKELY THAT THIS WOULD RESULT IN HARMFUL EFFECTS DURING SAFE HANDLING AND USE.

INGESTION:

SWALLOWING SMALL AMOUNTS OF THIS MATERIAL DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS. SWALLOWING LARGE AMOUNTS MAY BE HARMFUL.

INHALATION:

IT IS POSSIBLE TO BREATHE THIS MATERIAL UNDER CERTAIN CONDITIONS OF HANDLING AND USE (FOR EXAMPLE, DURING HEATING, SPRAYING, OR STIRRING). BREATHING SMALL AMOUNTS OF THIS MATERIAL DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS. BREATHING LARGE AMOUNTS MAY BE HARMFUL. SYMPTOMS ARE NOT EXPECTED AT AIR CONCENTRATIONS BELOW THE RECOMMENDED EXPOSURE LIMITS, IF APPLICABLE (SEE SECTION 8.).

AGGRAVATED MEDICAL CONDITION:

PREEXISTING DISORDERS OF THE FOLLOWING ORGANS (OR ORGAN SYSTEMS) MAY BE AGGRAVATED BY EXPOSURE TO THIS MATERIAL: SKIN, LUNG (FOR EXAMPLE, ASTHMA-LIKE CONDITIONS)

SYMPTOMS:

SIGNS AND SYMPTOMS OF EXPOSURE TO THIS MATERIAL THROUGH BREATHING, SWALLOWING, AND/OR PASSAGE OF THE MATERIAL THROUGH THE SKIN MAY INCLUDE: STOMACH OR INTESTINAL UPSET (NAUSEA, VOMITING, DIARRHEA), IRRITATION (NOSE, THROAT, AIRWAYS)

TARGET ORGANS: NO DATA

CARCINOGENICITY:

THIS MATERIAL IS NOT LISTED AS A CARCINOGEN BY THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC), THE NATIONAL TOXICOLOGY PROGRAM (NTP), OR THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). USED MOTOR OIL HAS BEEN SHOWN TO CAUSE SKIN CANCER IN LABORATORY ANIMALS CONTINUALLY EXPOSED BY REPEATED APPLICATIONS. AVOID PROLONGED OR REPEATED SKIN CONTACT.

REPRODUCTIVE HAZARD:

BASED ON THE AVAILABLE INFORMATION, RISK TO THE FETUS FROM MATERNAL EXPOSURE TO THIS MATERIAL CANNOT BE ASSESSED.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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COMPONENTS	CAS-NO.	CONCENTRATION
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	>/=70-<80%
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7	>/=5-<10%

4. FIRST AID MEASURES

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EYES:

IF SYMPTOMS DEVELOP, MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR. FLUSH EYES GENTLY WITH WATER WHILE HOLDING EYELIDS APART. IF SYMPTOMS PERSIST OR THERE IS ANY VISUAL DIFFICULTY, SEEK MEDICAL ATTENTION.

SKIN:

REMOVE CONTAMINATED CLOTHING. WASH EXPOSED AREA WITH SOAP AND WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. LAUNDRY CLOTHING BEFORE REUSE.

INGESTION:

SEEK MEDICAL ATTENTION. IF INDIVIDUAL IS DROWSY OR UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH; PLACE INDIVIDUAL ON THE LEFT SIDE WITH THE HEAD DOWN. CONTACT A PHYSICIAN, MEDICAL FACILITY, OR POISON CONTROL CENTER FOR ADVICE ABOUT WHETHER TO INDUCE VOMITING. IF POSSIBLE, DO NOT LEAVE INDIVIDUAL UNATTENDED.

INHALATION:

IF SYMPTOMS DEVELOP, MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. KEEP PERSON WARM AND QUIET; SEEK IMMEDIATE MEDICAL ATTENTION.

NOTES TO PHYSICIAN:

HAZARDS:

ACUTE ASPIRATION OF LARGE AMOUNTS OF OIL-LADEN MATERIAL MAY PRODUCE A SERIOUS ASPIRATION PNEUMONIA. PATIENTS WHO ASPIRATE THESE OILS SHOULD BE FOLLOWED FOR THE DEVELOPMENT OF LONG-TERM SEQUELAE. REPEATED ASPIRATION OF SMALL QUANTITIES OF MINERAL OIL CAN PRODUCE CHRONIC INFLAMMATION OF THE LUNGS (I.E. LIPOID PNEUMONIA) THAT MAY PROGRESS TO PULMONARY FIBROSIS. SYMPTOMS ARE OFTEN SUBTLE AND RADIOLOGICAL CHANGES APPEAR WORSE THAN CLINICAL ABNORMALITIES. OCCASIONALLY, PERSISTENT COUGH, IRRITATION OF THE UPPER RESPIRATORY TRACT, SHORTNESS OF BREATH WITH EXERTION, FEVER, AND BLOODY SPUTUM OCCUR. INHALATION EXPOSURE TO OIL MISTS BELOW CURRENT WORKPLACE EXPOSURE LIMITS IS UNLIKELY TO CAUSE PULMONARY ABNORMALITIES.

TREATMENT: NO INFORMATION AVAILABLE.

5. FIRE-FIGHTING MEASURES

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SUITABLE EXTINGUISHING MEDIA:

WATER MIST, CARBON DIOXIDE (CO₂), DRY CHEMICAL

HAZARDOUS COMBUSTION PRODUCTS:

CARBON DIOXIDE AND CARBON MONOXIDE, OXIDES OF SULFUR, NITROGEN AND PHOSPHORUS, VARIOUS HYDROCARBONS

PRECAUTIONS FOR FIRE-FIGHTING:

NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY. DENSE SMOKE MAY BE GENERATED WHILE BURNING. WEAR FULL FIREFIGHTING TURN-OUT GEAR (FULL BUNKER GEAR), AND RESPIRATORY PROTECTION (SCBA). DO NOT DIRECT A SOLID STREAM OF WATER OR FOAM INTO HOT, BURNING POOLS OF LIQUID SINCE THIS MAY CAUSE FROTHING AND INCREASE FIRE INTENSITY. FROTHING CAN BE VIOLENT AND POSSIBLY ENDANGER ANY FIREFIGHTER STANDING TOO CLOSE TO THE BURNING LIQUID. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS AND STRUCTURES UNTIL FIRE IS OUT IF IT CAN BE DONE WITH MINIMAL RISK. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES.

FLAMMABILITY CLASS FOR FLAMMABLE LIQUIDS: COMBUSTIBLE LIQUID CLASS IIIB

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS:
FOR PERSONAL PROTECTION SEE SECTION 8. PERSONS NOT WEARING PROPER PERSONAL PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL.

ENVIRONMENTAL PRECAUTIONS:
PREVENT RUN-OFF TO SEWERS, STREAMS OR OTHER BODIES OF WATER. IF RUN-OFF OCCURS, NOTIFY PROPER AUTHORITIES AS REQUIRED, THAT A SPILL HAS OCCURRED.

METHODS FOR CLEANING UP:
PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS BEEN COMPLETED. STOP SPILL AT SOURCE, DIKE AREA OF SPILL TO PREVENT SPREADING, PUMP LIQUID TO SALVAGE TANK. REMAINING LIQUID MAY BE TAKEN UP ON SAND, CLAY, EARTH, FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL AND SHOVELED INTO CONTAINERS. ABSORB LIQUID ON VERMICULITE, FLOOR ABSORBENT OR OTHER ABSORBENT MATERIAL. SCOOP OR SCRAPE UP. PUT IN CONTAINER FOR RECOVERY OR DISPOSAL.

7. HANDLING AND STORAGE



HANDLING:
CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED. AVOID PROLONGED OR FREQUENTLY REPEATED SKIN CONTACT WITH THIS MATERIAL. SKIN CONTACT CAN BE MINIMIZED BY WEARING IMPERVIOUS PROTECTIVE GLOVES. AS WITH ALL PRODUCTS OF THIS NATURE, GOOD PERSONAL HYGIENE IS ESSENTIAL. HANDS AND OTHER EXPOSED AREAS SHOULD BE WASHED THOROUGHLY WITH SOAP AND WATER AFTER CONTACT, ESPECIALLY BEFORE EATING AND/OR SMOKING. REGULAR LAUNDERING OF CONTAMINATED CLOTHING IS ESSENTIAL TO REDUCE INDIRECT SKIN CONTACT WITH THIS MATERIAL.

STORAGE:
CONTAINERS SHOULD BE STORED IN A COOL, DRY, WELL-VENTILATED AREA. STORE AWAY FROM FLAMMABLE MATERIALS, SOURCES OF HEAT AND FLAME, AND FOODSTUFFS. EXERCISE CAUTION TO PREVENT DAMAGE TO OR LEAKAGE FROM THE CONTAINER. GUARD AGAINST WATER CONTAMINATION TO PREVENT DECOMPOSITION.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



EXPOSURE GUIDELINES:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE: 64742-55-8

ACGIH:
TIME WEIGHTED AVERAGE: 5 MG/M3 MIST.

ACGIH:

Grainger MSDS Lookup

SHORT TERM EXPOSURE LIMIT: 10 MG/M3 MIST.

ACGIH NIC:
TIME WEIGHTED AVERAGE: 0.2 MG/M3 INHALABLE FRACTION.

GENERAL ADVICE:
THESE RECOMMENDATIONS PROVIDE GENERAL GUIDANCE FOR HANDLING THIS PRODUCT. PERSONAL PROTECTIVE EQUIPMENT SHOULD BE SELECTED FOR INDIVIDUAL APPLICATIONS AND SHOULD CONSIDER FACTORS WHICH AFFECT EXPOSURE POTENTIAL, SUCH AS HANDLING PRACTICES, CHEMICAL CONCENTRATIONS AND VENTILATION. IT IS ULTIMATELY THE RESPONSIBILITY OF THE EMPLOYER TO FOLLOW REGULATORY GUIDELINES ESTABLISHED BY LOCAL AUTHORITIES.

EXPOSURE CONTROLS:
GENERAL ROOM VENTILATION SHOULD BE ADEQUATE FOR NORMAL CONDITIONS OF USE. HOWEVER, IF UNUSUAL OPERATING CONDITIONS EXIST, PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW EXPOSURE GUIDELINES (IF APPLICABLE) OR BELOW LEVELS THAT CAUSE KNOWN, SUSPECTED OR APPARENT ADVERSE EFFECTS.

EYE PROTECTION:
NOT REQUIRED UNDER NORMAL CONDITIONS OF USE. WEAR SPLASH-PROOF SAFETY GOGGLES IF MATERIAL COULD BE MISTED OR SPLASHED INTO EYES.

SKIN AND BODY PROTECTION:
WEAR NORMAL WORK CLOTHING INCLUDING LONG PANTS, LONG-SLEEVED SHIRTS AND FOOT COVERING TO PREVENT DIRECT CONTACT OF THE PRODUCT WITH THE SKIN. LAUNDRY CLOTHING BEFORE REUSE. IF SKIN IRRITATION DEVELOPS, CONTACT YOUR FACILITY HEALTH AND SAFETY PROFESSIONAL OR YOUR LOCAL SAFETY EQUIPMENT SUPPLIER TO DETERMINE THE PROPER PERSONAL PROTECTIVE EQUIPMENT FOR YOUR USE.

NOT NORMALLY REQUIRED. HOWEVER, WEAR RESISTANT GLOVES SUCH AS NITRILE RUBBER TO PREVENT IRRITATION WHICH MAY RESULT FROM PROLONGED OR REPEATED SKIN CONTACT WITH PRODUCT.

RESPIRATORY PROTECTION:
RESPIRATORY PROTECTION IS NOT REQUIRED UNDER NORMAL CONDITIONS OF USE.

9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE: LIQUID

FORM: NO DATA

COLOR: RED

ODOR: NO DATA

BOILING POINT/BOILING RANGE: NO DATA

pH: NO DATA

FLASH POINT: 410 DEG. F / 210 DEG. C

EVAPORATION RATE: NO DATA

EXPLOSION LIMITS:

1% (V)

6% (V)

VAPOR PRESSURE: 0.01 HPA @ 70.00 DEG. F / 21.11 DEG. C

VAPOR DENSITY: NO DATA

DENSITY:

0.855 G/CM3 @ 60.01 DEG. F / 15.56 DEG. C

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7.07 LB/GAL @ 60.00 DEG. F / 15.56 DEG. C

SOLUBILITY: NEGLIGIBLE IN WATER

PARTITION COEFFICIENT n-OCTANOL/WATER: NO DATA

LOG POW: NO DATA AVAILABLE

AUTOIGNITION TEMPERATURE: NO DATA



10. STABILITY AND REACTIVITY

STABILITY: STABLE.

CONDITIONS TO AVOID: NONE KNOWN.

INCOMPATIBLE PRODUCTS: STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS:

MAY FORM:
CARBON DIOXIDE AND CARBON MONOXIDE, OXIDES OF SULFUR, NITROGEN AND
PHOSPHORUS, VARIOUS HYDROCARBONS

HAZARDOUS REACTIONS: PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

THERMAL DECOMPOSITION: NO DATA



11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE: NO DATA AVAILABLE

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAF:
LD 50 RAT: >15 G/KG

ACUTE INHALATION TOXICITY:
HYDROTREATED LIGHT PARAFFINIC DISTILLATE: NO DATA AVAILABLE
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAF: NO DATA AVAILABLE

ACUTE DERMAL TOXICITY:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE: NO DATA AVAILABLE

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAF:
LD 50 RABBIT: >5 G/KG



12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY:
ACUTE AND PROLONGED TOXICITY TO FISH: NO DATA
ACUTE TOXICITY TO AQUATIC INVERTEBRATES: NO DATA

ENVIRONMENTAL FATE AND PATHWAYS: NO DATA



13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS:
DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL

REGULATIONS. FOR ASSISTANCE WITH YOUR WASTE MANAGEMENT NEEDS - INCLUDING DISPOSAL, RECYCLING AND WASTE STREAM REDUCTION, CONTACT ASHLAND DISTRIBUTION'S ENVIRONMENTAL SERVICES GROUP AT 800-637-7922.

14. TRANSPORT INFORMATION

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DANGEROUS GOODS DESCRIPTIONS (IF INDICATED ABOVE) MAY NOT REFLECT PACKAGE SIZE, QUANTITY, END-USE OR REGION-SPECIFIC EXCEPTIONS THAT CAN BE APPLIED. CONSULT SHIPPING DOCUMENTS FOR DESCRIPTIONS THAT ARE SPECIFIC TO THE SHIPMENT.

15. REGULATORY INFORMATION

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CALIFORNIA PROP. 65:
PROPOSITION 65 WARNINGS ARE NOT REQUIRED FOR THIS PRODUCT BASED ON THE RESULTS OF A RISK ASSESSMENT.

SARA HAZARD CLASSIFICATION: ACUTE HEALTH HAZARD

SARA 313 COMPONENT(S):

REPORTABLE QUANTITY - COMPONENTS:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	NONE
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAF	64742-54-7	NONE

	HMIS	NFPA
HEALTH	1	1
FLAMMABILITY	1	1
REACTIVITY	0	0
OTHER		

16. OTHER INFORMATION

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THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES. THIS MSDS HAS BEEN PREPARED BY ASHLAND'S ENVIRONMENTAL HEALTH AND SAFETY DEPARTMENT (1-800-325-3751).