

## ITEM: 1UBY4 - Valvoline All Climate 5W20 1 Qt

0s3b4168T

ORDER: 0067002104

LP NUMBER: U840666702

## MATERIAL SAFETY DATA SHEET (MSDS)

**This MSDS should be attached or kept with the respective product with which it is associated.**

MATERIAL SAFETY DATA SHEET - B4942

Associated Grainger Items  
4NPG9, 1UBY4

ASHLAND(R\*)

SAFETY DATA SHEET

PREMIUM CONVENTIONAL SAE 5W-20 MOTOR OIL

VV142

REVISION DATE: 05/08/2009

PRINT DATE: 5/11/2009

MSDS NUMBER: R0366793

VERSION: 1.17

**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

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

PRODUCT NAME: PREMIUM CONVENTIONAL SAE 5W-20 MOTOR OIL

PRODUCT CODE: VV142

PRODUCT USE DESCRIPTION: NO DATA

**2. HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW:

APPEARANCE: LIQUID

CAUTION!

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

POTENTIAL HEALTH EFFECTS:

ROUTES OF EXPOSURE: SKIN CONTACT, INHALATION, 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.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:  
THERE ARE NO DATA AVAILABLE FOR ASSESSING RISK TO THE FETUS FROM MATERNAL  
EXPOSURE TO THIS MATERIAL.**3. COMPOSITION/INFORMATION ON INGREDIENTS**

COMPONENTS	CAS-NO.	CONCENTRATION
MIXTURE OF SEVERELY HYDROTREATED AND HYDROCRACKED BASE OIL (PETROLEUM)	MIXTURE	>/=50-<60%

**4. FIRST AID MEASURES****EYES:**IF SYMPTOMS DEVELOP, IMMEDIATELY MOVE INDIVIDUAL AWAY FROM EXPOSURE AND  
INTO FRESH AIR. FLUSH EYES GENTLY WITH WATER FOR AT LEAST 15 MINUTES WHILE  
HOLDING EYELIDS APART; SEEK IMMEDIATE 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 EXERCISE, 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**SUITABLE EXTINGUISHING MEDIA:  
WATER MIST, CARBON DIOXIDE (CO2), DRY CHEMICALHAZARDOUS COMBUSTION PRODUCTS:  
CARBON DIOXIDE AND CARBON MONOXIDE, OXIDES OF SULFUR, NITROGEN AND  
PHOSPHORUS**PRECAUTIONS FOR FIRE-FIGHTING:**NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE  
PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY. 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.

FLAMMABILITY CLASS FOR FLAMMABLE LIQUIDS: COMBUSTIBLE LIQUID CLASS IIIB

**6. ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS:**FOR PERSONAL PROTECTION SEE SECTION 8. ELIMINATE ALL IGNITION SOURCES  
(FLARES, FLAMES INCLUDING PILOT LIGHTS, ELECTRICAL SPARKS). PERSONS NOT  
WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL  
CLEAN-UP HAS BEEN COMPLETED. STOP SPILL AT SOURCE. PREVENT FROM ENTERING  
DRAINS, SEWERS, STREAMS OR OTHER BODIES OF WATER. PREVENT FROM SPREADING.  
IF RUNOFF OCCURS, NOTIFY AUTHORITIES AS REQUIRED. PUMP OR VACUUM TRANSFER  
SPILLED PRODUCT TO CLEAN CONTAINERS FOR RECOVERY. ABSORB UNRECOVERABLE  
PRODUCT. TRANSFER CONTAMINATED ABSORBENT, SOIL AND OTHER MATERIALS TO  
CONTAINERS FOR DISPOSAL.**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:**ABSORB LIQUID ON VERMICULITE, FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL  
AND TRANSFER TO HOOD.**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.**STORAGE:**STORE IN A COOL, DRY, VENTILATED AREA. KEEP CONTAINERS CLOSED WHEN NOT IN  
USE. DO NOT STORE NEAR EXTREME HEAT, OPEN FLAME, OR SOURCES OF IGNITION.**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****EXPOSURE GUIDELINES:**

&lt;3% DMSO DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PA

OSHA Z1:  
PERMISSIBLE EXPOSURE LIMIT: 500 PPMOSHA Z1:  
PERMISSIBLE EXPOSURE LIMIT: 2,000 MG/M3OSHA Z1A:  
TIME WEIGHTED AVERAGE: 400 PPMOSHA Z1A:  
TIME WEIGHTED AVERAGE: 1,600 MG/M3

US CA OEL:  
TIME WEIGHTED AVERAGE (TWA): 400 PPM  
PERMISSIBLE EXPOSURE LIMIT (PEL):

US CA OEL:  
TIME WEIGHTED AVERAGE (TWA): 1,600 MG/M3  
PERMISSIBLE EXPOSURE LIMIT (PEL):

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

ACGIH:  
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 RESISTANT GLOVES (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER).

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.

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

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID

FORM: NO DATA

COLOR: NO DATA

ODOR: NO DATA

BOILING POINT/BOILING RANGE: NO DATA

pH: NO DATA

FLASH POINT: (>)390 DEG. F / 199 DEG. C, CLEVELAND OPEN CUP

EVAPORATION RATE: NO DATA

EXPLOSION LIMITS:

1% (V)

6% (V)

VAPOR PRESSURE: 0.00 HPA @ 68 DEG. F / 20 DEG. C

VAPOR DENSITY: NO DATA

DENSITY:

0.8555 G/CM3 @ 60.01 DEG. F / 15.56 DEG. C

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

SOLUBILITY: NO DATA

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:  
CARBON DIOXIDE AND CARBON MONOXIDE, OXIDES OF SULFUR, NITROGEN AND PHOSPHORUS

HAZARDOUS REACTIONS: PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

THERMAL DECOMPOSITION: NO DATA

#### 11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY:  
MIXTURE OF SEVERELY HYDROTREATED AND HYDROCRACKED BASE OIL (PETROLEUM):  
LD50 RAT: >5,000 MG/KG

ACUTE INHALATION TOXICITY:  
MIXTURE OF SEVERELY HYDROTREATED AND HYDROCRACKED BASE OIL (PETROLEUM):  
NO DATA AVAILABLE

ACUTE DERMAL TOXICITY:

MIXTURE OF SEVERELY HYDROTREATED AND HYDROCRACKED BASE OIL (PETROLEUM):  
LD50 RABBIT: >2,000 MG/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:  
DESTROY BY LIQUID INCINERATION. CONTAMINATED ABSORBENT MAY BE DEPOSITED IN A LANDFILL IN ACCORDANCE WITH 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

HAZARDOUS GOODS DESCRIPTIONS (IF INDICATED ABOVE) MAY NOT REFLECT 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

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:

MIXTURE OF SEVERELY HYDROTREATED AND HYDROCRACKED BASE OIL (PETROLEUM)	MIXTURE	NONE
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	HMIS	NFPA	
HEALTH	1	1	1
FLAMMABILITY	1	1	
REACTIVITY	0	0	
OTHER			

#### 16. OTHER INFORMATION

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).