

MATERIAL SAFETY DATA SHEET

THE VALVOLINE COMPANY

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NAPA MV MOTOR OIL SAE 10W40

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL IDENTITY

PRODUCT NAME: NAPA MV MOTOR OIL SAE 10W40

PRODUCT CODE: 00075100

GENERAL OR GENERIC ID: PETROLEUM BASED-LUBRICATING OIL

COMPANY

TELEPHONE NUMBERS

THE VALVOLINE COMPANY

EMERGENCY: 1-800-274-5263

P.O. BOX 14000

LEXINGTON, KY 40512

INFORMATION: 1-606-357-7847

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S)

CAS NUMBER % (BY WEIGHT)

ALIPHATIC PETROLEUM DISTILLATES 64742-65-0 83.0-93.0

DETERGENT/DISPERSANT ENGINE OIL PACKAGE

ZINC COMPOUNDS

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYE:

MAY CAUSE MILD EYE IRRITATION. SYMPTOMS INCLUDE STINGING, TEARING, AND REDNESS.

SKIN:

MAY CAUSE MILD SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY THE SKIN. SYMPTOMS MAY INCLUDE REDNESS, BURNING, DRYING AND CRACKING OF SKIN, AND SKIN BURNS. ADDITIONAL SYMPTOMS OF SKIN CONTACT MAY INCLUDE: ACNE, 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.

SWALLOWING:

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 USUALLY OCCUR AT AIR CONCENTRATIONS HIGHER THAN THE RECOMMENDED EXPOSURE LIMITS (SEE SECTION 8)

SYMPTOMS OF EXPOSURE:

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), BLOOD ABNORMALITIES (BREAKAGE OF RED BLOOD CELLS), LIVER DAMAGE.

TARGET ORGAN EFFECTS:

NO DATA

DEVELOPMENTAL INFORMATION:

THERE ARE NO DATA AVAILABLE FOR ASSESSING RISK TO THE FETUS FROM MATERNAL EXPOSURE TO THIS MATERIAL.

CANCER INFORMATION:

THIS MATERIAL IS NOT LISTED AS A CARCINOGEN BY IARC, NTP OR 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.

OTHER HEALTH EFFECTS:

NO DATA

PRIMARY ROUTE(S) OF ENTRY:

INHALATION, SKIN ABSORPTION, SKIN CONTACT, EYE CONTACT, INGESTION.

4. FIRST AID MEASURES

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. LAUNDER CLOTHING BEFORE REUSE.

SWALLOWING:

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.

NOTE TO PHYSICIANS:

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. PREEXISTING DISORDERS OF THE FOLLOWING ORGANS (OR ORGAN SYSTEMS) MAY BE AGGRAVATED BY EXPOSURE TO THIS MATERIAL: SKIN.

5. FIRE FIGHTING MEASURES

FLASH POINT:

435.0 F (223.8 C) COC

EXPLOSIVE LIMIT:

NO DATA

AUTOIGNITION TEMPERATURE:

NO DATA

HAZARDOUS PRODUCTS OF COMBUSTION:

MAY FORM:

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

FIRE AND EXPLOSION HAZARDS:

NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY. NO SPECIAL FIRE HAZARDS ARE KNOWN TO BE ASSOCIATED WITH THIS PRODUCT. DENSE SMOKE MAY BE GENERATED WHILE BURNING.

EXTINGUISHING MEDIA:

REGULAR FOAM, CARBON DIOXIDE, DRY CHEMICAL.

FIRE FIGHTING INSTRUCTIONS:

WATER OR FOAM MAY CAUSE FROTHING WHICH CAN BE VIOLENT AND POSSIBLY ENDANGER

THE LIFE OF THE FIREFIGHTER. WATER MAY BE USED TO KEEP FIRE-EXPOSED CONTAINERS COOL UNTIL FIRE IS OUT. WEAR A SELF-CONTAINED BREATHING APPARATUS

WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WITH APPROPRIATE TURN- OUT GEAR AND CHEMICAL RESISTANT PERSONAL PROTECTIVE EQUIPMENT. REFER TO THE PERSONAL PROTECTIVE EQUIPMENT SECTION OF THIS MSDS.

NFPA RATING

HEALTH - 1,

FLAMMABILITY - 1,

REACTIVITY - 0

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

ABSORB LIQUID ON VERMICULITE, FLOOR ABSORBENT OR OTHER ABSORBENT MATERIAL.

PERSONS NOT WEARING PROPER PERSONAL PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL.

LARGE SPILL:

PREVENT RUN-OFF TO SEWERS, STREAMS OR OTHER BODIES OF WATER. IF RUN-OFF OCCURS, NOTIFY PROPER AUTHORITIES AS REQUIRED, THAT A SPILL HAS OCCURED. PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN- UP HAS BEEN COMPLETED.

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. ALL FIVE GALLON PAILS

AND LARGER METAL CONTAINERS INCLUDING TANK CARS AND TANK TRUCKS SHOULD BE

GROUNDED AND/OR BONDED WHEN MATERIAL IS TRANSFERRED. PRECAUTIONS DURING USE:

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 MATERIAL. WARNING. SUDDEN RELEASE OF HOT ORGANIC CHEMICAL VAPORS OR MISTS FROM PROCESS EQUIPMENT OPERATING AT ELEVATED TEMPERATURE AND PRESSURE, OR SUDDEN INGRESS OF AIR INTO VACUUM EQUIPMENT, MAY RESULT IN IGNITIONS WITHOUT THE PRESENCE OF OBVIOUS IGNITION SOURCES. PUBLISHED "AUTOIGNITION" OR "IGNITION" TEMPERATURE VALUES CANNOT BE TREATED AS SAFE OPERATING TEMPERATURES IN CHEMICAL PROCESSES WITHOUT ANALYSIS OF THE ACTUAL PROCESS CONDITIONS. ANY USE OF THIS PRODUCT IN ELEVATED TEMPERATURE PROCESSES SHOULD BE THOROUGHLY EVALUATED TO ESTABLISH AND MAINTAIN SAFE OPERATING CONDITIONS.

STORAGE:

DO NOT STORE NEAR EXTREME HEAT, OPEN FLAME, OR SOURCES OF IGNITION.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION:

NOT REQUIRED UNDER NORMAL CONDITIONS OF USE. HOWEVER, IF MISTING OR SPLASHING CONDITIONS EXIST, THEN SAFETY GLASSES OR CHEMICAL SPLASH GOGGLES ARE ADVISED.

SKIN PROTECTION:

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., TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS. WEAR NORMAL WORK CLOTHING COVERING ARMS AND LEGS..

RESPIRATORY PROTECTIONS:

IF WORKPLACE EXPOSURE LIMIT(S) OF PRODUCT OR ANY COMPONENT IS EXCEEDED (SEE EXPOSURE GUIDELINES), A NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS (NEGATIVE PRESSURE TYPE) UNDER SPECIFIED CONDITIONS (CONSULT YOUR INDUSTRIAL HYGIENIST). ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE. NOT REQUIRED UNDER NORMAL CONDITIONS OF USE. HOWEVER, IF OIL MISTS ARE GENERATED ABOVE RECOMMENDED PEL/TLV OF 5 MG/M3, THEN A NIOSH/MSHA APPROVED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. (SEE YOUR INDUSTRIAL HYGIENIST.)

ENGINEERING CONTROLS:

PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

EXPOSURE GUIDELINES
COMPONENT

ALIPHATIC PETROLEUM DISTILLATES (64742-65-0)
OSHA VPEL 5.000 MG/M3 - TWA OIL MIST
ACGIH TLV 5.000 MG/M3 - TWA OIL MIST

DETERGENT/DISPERSANT ENGINE OIL PACKAGE:
NO EXPOSURE LIMITS ESTABLISHED

ZINC COMPOUNDS:
NO EXPOSURE LIMITS ESTABLISHED

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT:
(FOR COMPONENT) 425.0 F (218.3 C) @ 760.00 MMHG

VAPOR PRESSURE:
NO DATA

SPECIFIC VAPOR DENSITY:
NO DATA

SPECIFIC GRAVITY:
.881 @ 60.00 F

LIQUID DENSITY:
7.340 LBS/GAL @ 60.00 F
.881 KG/L @ 15.60 C

PERCENT VOLATILES (INCLUDING WATER):
NO DATA

EVAPORATION RATE:
SLOWER THAN ETHYL ETHER

APPEARANCE:
DRY, CLEAR & BRIGHT

STATE:
LIQUID

PHYSICAL FORM:

NO DATA

COLOR:

NO DATA

ODOR:

NO DATA

PH:

NOT APPLICABLE

VISCOSITY:

<= 3300.0 CPS @ -20 C

13.5 - 14.5 CST @ 100 C

10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION:

PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION:

MAY FORM:

ALDEHYDES, CARBON DIOXIDE AND CARBON MONOXIDE, HYDROGEN SULFIDE, OXIDES OF

SULFUR, NITROGEN AND PHOSPHORUS, TOXIC FUMES, VARIOUS HYDROCARBONS.

CHEMICAL STABILITY:

STABLE.

INCOMPATIBILITY:

AVOID CONTACT WITH: ACIDS, HALOGENS, STRONG OXIDIZING AGENTS.

11. TOXICOLOGICAL INFORMATION

NO DATA

12. ECOLOGICAL INFORMATION

NO DATA

13. DISPOSAL CONSIDERATION

WASTE MANAGEMENT INFORMATION:

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

14. TRANSPORT INFORMATION

DOT INFORMATION - 49 CFR 172.101

DOT DESCRIPTION: NOT REGULATED

CONTAINER/MODE: CASES/SURFACE - NO EXCEPTIONS

NOS COMPONENT: NONE

RQ (REPORTABLE QUANTITY) - 49 CFR 172.101: NOT APPLICABLE

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCES CONTROL ACT) STATUS:

TSCA (UNITED STATES) THE INTENTIONAL INGREDIENTS OF THIS PRODUCT ARE LISTED.

CERCLA RQ - 40 CFR 302.4:

NONE

SARA 302 COMPONENTS - 40 CFR 355 APPENDIX A:

NONE

SECTION 311/312 HAZARD CLASS - 40 CFR 370.2:

IMMEDIATE(X) DELAYED(X) FIRE() REACTIVE() SUDDEN RELEASE OF
PRESSURE()

SARA 313 COMPONENTS - 40 CFR 372.65:

SECTION 313 COMPONENT(S) CAS NUMBER

ZINC C1-C14 ALKYLDITHIOPHOSPHATE 68649-42-3

INTERNATIONAL REGULATIONS:

INVENTORY STATUS:

NOT DETERMINED

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65:

NONE

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.