

VALVOLINE OIL CO SUBSIDIARY OF ASHLAND OIL INC. -- GEAR OIL 85-140 -- 9150-01-035-5395  
===== Product Identification =====

Product ID:GEAR OIL 85-140  
MSDS Date:03/04/1998  
FSC:9150  
NIIN:01-035-5395  
MSDS Number: BXWDG  
=== Responsible Party ===  
Company Name:VALVOLINE OIL CO SUBSIDIARY OF ASHLAND OIL INC.  
Address:200 E MAIN ST  
Box:14000  
City:LEXINGTON  
State:KY  
ZIP:40512  
Country:US  
Info Phone Num:606-26  
4-7000/7616;FAX 601-429-0537  
Emergency Phone Num:800-ASHLAND/800-274-5263  
CAGE:72527

=== Contractor Identification ===  
Company Name:ASHLAND INC ASHLAND INDUSTRIAL PRODUCTS DIV  
Address:491 RAILROAD ST  
Box:City:ROCHESTER  
State:PA  
ZIP:15074-1905  
Country:US  
Phone:724-770-1500  
Contract Num:SP0450-98-M-CM33  
CAGE:0XDH2  
Company Name:VALVOLINE OIL CO  
Address:3499 BLAZER PKY  
Box:14000  
City:LEXINGTON  
State:KY  
ZIP:40512  
Country:US  
Phone:606-357-7206 / 800-274-5263  
CAGE:72527

===== Composition/Info

Information on Ingredients =====

Ingredient Name: MINERAL OIL, PETROLEUM DISTILLATE, SOLVENT DDEWAXED  
(SEVERE), HEAVY PARAFFINIC  
CAS: 64742-65-0  
RTECS #: PY8038501  
Minimum % Wt: 87.  
Maximum % Wt: 97.  
Other REC Limits: NONE RECOMMENDED  
OSHA PEL: 5 MG/M3 AS OIL MIST  
ACGIH TLV: 5 MG/M3 AS OIL MIST

Ingredient Name: LUBE OIL ADDITIVE  
Minimum % Wt: 2.8  
Maximum % Wt: 13.  
Other REC Limits: NONE RECOMMENDED

===== Hazards Identification =====

LD50 LC50 Mixture: TLV FOR OIL MIST I  
S 5 MG/M3.  
Routes of Entry: Inhalation: NO Skin: NO Ingestion: NO  
Reports of Carcinogenicity: NTP: NO IARC: NO OSHA: NO  
Health Hazards Acute and Chronic: EYE-UNLIKELY TO CAUSE EYE IRRITATION  
OR INJURY. SKIN-MAY CAUSE MILD SKIN IRRITATION.  
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). SYMPTOMS USUALLY OCCUR AT  
AIR CONCENTRATIONS HIGHER THAN RECOMMENDED EXPOSURE LIMITS.  
Explanation of Carcinogenicity: NONE  
Effects of Overexposure: SKIN: SYMPTOMS MAY INCLUDE REDNESS, BURNING,  
DRYING AND CRACKING OF SKIN, AND SKIN BURNS. SYMPTOMS OF  
EXPOSURE-STOMACH OR INTESTINAL UPSET (NAUSEA, VOMITING, DIARRHEA),  
IRRITATION (NOSE, THROAT, AIRWAYS), PAIN IN THE ABDOMEN.

===== First Aid Measures =====

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First Aid: EYES-IF SYMPTOMS DEVELOP, MOVE INDIVIDUAL AWAY FROM EXPOSURE  
AND INTO FRESH AIR. FLUSH EYES GENTLY WITH WATER WHILE HOLDING  
EYELIDS APART. SKIN-REMOVE CONTAMINATED CLOTHING. WASH EXPOSED AREA  
WITH SOAP & WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION.  
SWALLOWING-DO NOT INDUCE VOMITING. GIVE ONE GLASS OF MILK OR WATER,  
& GET MEDICAL ATTENTION IMMEDIATELY. IF POSSIBLE DO NOT LEAVE  
VICTIM UNATTENDED. INHALATION-IF SYMPTOMS DEVELOP

, IMMEDIATELY

MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR. SEEK IMMEDIATE MEDICAL ATTENTION; KEEP PERSON WARM & QUIET. IF PERSON IS NOT BREATHING, BEGIN ARTIFICIAL RESPIRATION/ADMINISTER OXYGEN.

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===== Fire Fighting Measures =====

Flash Point:>148.9C, 300.F

Extinguishing Media:REGULAR FOAM, CARBON DIOXIDE, DRY CHEMICAL.

Fire Fighting Procedures:WATER OR FOAM MAY CAUSE FROTHING WHICH CAN BE VIOLENT & POSSIBLY ENDANGER THE LIFE OF THE F

IREFIGHTER. WEAR A

SELF CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WITH APPROPRIATE TURN-OUT GEAR & CHEMICAL RESISTANT PERSONAL PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard: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.

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===== Accidental Release Measures =====

Spill R

Release Procedures:SMALL SPILL: ABSORB LIQUID ON VERMICULITE, FLOOR ABSORBENT OR OTHER ABSORBENT MATERIAL.

Neutralizing Agent:NOT RELEVANT

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===== Handling and Storage =====

Handling and Storage Precautions: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.

Other Precautions:DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. WASH

THOROUGHLY AFTER HANDLING. EMPTY CONTAINER RETAINS PRODUCT RESIDUE. OBSERVE ALL PRECAUTIONS GIVEN IN THE MATERIAL SAFETY DATA SHEET.

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===== Exposure Controls/Personal Protection =====

Respiratory Protection: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 THE ABSENCE OF PROPER ENVIRONMENTAL CONTROL. (SEE YOU

R INDUSTRIAL  
HYGIENIST).

Ventilation:NOT REQUIRED UNDER NORMAL CONDITIONS OF USE. HOWEVER, IF  
UNUSUAL OPERATING CONDITIONS EXIST, THEN PROVIDE SUFFICIENT  
MECHANICAL VENTILATION TO MAINTAIN PEL/TLV.

Protective Gloves:NOT NORMALLY REQUIRED (NITRILE RUBBER)

Eye Protection:NOT NORMALLY REQUIRED (SAFETY GLASSES OR CHEMICAL SPLASH  
GOGGLES)

Other Protective Equipment:WEAR NORMAL WORK CLOTHING COVERING ARMS AND  
LEGS.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND

RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR  
FOOTWEAR.

Supplemental Safety and Health

===== Physical/Chemical Properties =====

HCC:V6

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:>218.C, 424.4F

Vapor Density: