1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Ashland Regulatory Information Number 1-800-325-3751
P.O. Box 2219 Telephone 614-790-3333
Columbus, OH 43216 Emergency telephone 1-800-ASHLAND (1-800-274-5263)

Product name VALVOLINE® HP GEAR OIL SAE 85W-140 HP GEAR OIL
Product code 138209
Product Use Description no data available

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, amber

CAUTION! PROLONGED OR REPEATED CONTACT MAY DRY THE SKIN AND CAUSE IRITATION AND BURNS.

Potential Health Effects

Exposure routes
Inhalation, Skin absorption, 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.

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
No ingredients are hazardous according to HCS criteria.

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. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder 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.

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**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**
Carbon dioxide (CO2), Dry chemical

**Hazardous combustion products**
carbon dioxide and carbon monoxide, oxides of sulfur, nitrogen and phosphorus
6. ACCIDENTAL RELEASE MEASURES

Personal precautions
For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions
Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

Methods for cleaning up
Keep in suitable, closed containers for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Other information
Comply with all applicable federal, state, and local regulations.

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.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

**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**
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. Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder 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 available |
| Colour | amber |
| Odour | no data available |
Boiling point/boiling range  
600.01 °F / 315.56 °C @ 1,013.33 hPa Calculated Phase Transition Liquid/Gas

Melting point/range
no data available

Sublimation point
no data available

pH
no data available

Flash point
210.00 °C Closed Cup

Ignition temperature
no data available

Evaporation rate
no data available

Lower explosion limit/Upper explosion limit  
0.9 % (V) / 7 % (V)

Particle size
no data available

Vapour pressure
0.100 hPa @ 68 °F / 20 °C Calculated Vapor Pressure

Vapour density
no data available

Density
0.9040 g/cm³ @ 60.01 °F / 15.56 °C

Bulk density
7.55 lb/gal @ 60.00 °F / 15.56 °C

Water solubility
no data available

Solubility
no data available

Partition coefficient: n-octanol/water
no data available

log Pow
no data available

Autoignition temperature
no data available

Viscosity, kinematic
26.5 mm²/s

Solids in Solution
no data available

Decomposition temperature
no data available

Burning number
no data available

Dust explosion constant
no data available

Minimum ignition energy
no data available

**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, Hydrocarbons

Hazardous reactions
  Product will not undergo hazardous polymerization.

Thermal decomposition
  No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity
  no data available

Acute inhalation toxicity
  no data available

Acute dermal toxicity
  no data available

12. ECOLOGICAL INFORMATION

Biodegradability
  no data available

Bioaccumulation
  no data available

Ecotoxicity effects

Toxicity to fish
  no data available

Toxicity to daphnia and other aquatic invertebrates.
  no data available

Toxicity to algae
  no data available

Toxicity to bacteria
13. DISPOSAL CONSIDERATIONS

Waste disposal methods
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

<table>
<thead>
<tr>
<th>REGULATION</th>
<th>PROPER SHIPPING NAME</th>
<th>*HAZARD CLASS</th>
<th>SUBSIDIARY HAZARDS</th>
<th>PACKING GROUP</th>
<th>MARINE POLLUTANT / LTD. QTY.</th>
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<tbody>
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</table>
INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Dangerous 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
No SARA Hazards

New Jersey RTK Label Information
SEVERELY TREATED BASE OIL
LUBRICANT ADDITIVE
DI-TERT-BUTYL POLYSULFIDE
PHOSPHORIC ACID ESTERS/AMINE SALT 68937-96-2

Pennsylvania RTK Label Information
SEVERELY TREATED BASE OIL
LUBRICANT ADDITIVE

Notification status
US. Toxic Substances Control Act  
y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA).  
y (positive listing)
y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act  
y (positive listing)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand  
n (Negative listing)
Japan. Kashin-Hou Law List  
y (positive listing)
Korea. Toxic Chemical Control Law (TCCL) List  
y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act  
y (positive listing)
China. Inventory of Existing Chemical Substances  
y (positive listing)

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<td>Specific Hazard</td>
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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).