

VALVOLINE® HP 75W-90 GEAR OIL
VV820

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 75W-90 GEAR OIL | |
| Product code | VV820 | |
| 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

Exposure routes

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.

Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation

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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.

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).

Reproductive hazard

There are no data available for assessing risk to the fetus from maternal exposure to this material.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Components | CAS-No. | Concentration |
|---|----------------|----------------------|
| DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC | | >=30-<40% |

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

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Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion

First aid is not normally required. If symptoms develop, seek medical attention.

Inhalation

First aid is not normally required. If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek 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

Suitable extinguishing media

regular foam (such as AFFF), Water mist, Dry powder, Carbon dioxide (CO2)

Hazardous combustion products

carbon dioxide and carbon monoxide, hydrogen sulfide, nitrogen oxides (NOx), Oxides of phosphorus, sulfur oxides, 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.

NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions

No data

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.

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 repeated contact. Do not store near high heat or open flames.

Storage

Keep containers closed when not in use.

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

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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 |
| Colour | No data |
| Odour | No data |
| Boiling point/boiling range | 200.00 °C @ 1,013.33 hPa Calculated Phase Transition Liquid/Gas |
| pH | No data |
| Flash point | (>) 199.00 °C Cleveland open cup |
| Evaporation rate | No data |
| Lower explosion limit/Upper explosion limit | 1 %(V) / 6 %(V) |
| Vapour pressure | 0.133 hPa @ 20 °C Calculated Vapor Pressure |
| Vapour density | No data |
| Density | 0.8613 g/cm ³ @ 60.01 °F / 15.56 °C |
| Solubility | No data |
| Partition coefficient: n-octanol/water | No data |
| log Pow | no data available |
| Autoignition temperature | No data |

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10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

None known.

Incompatible products

Avoid contact with:, strong oxidizing agents

Hazardous decomposition products

carbon dioxide and carbon monoxide, nitrogen oxides, Oxides of phosphorus, Sulphur oxides, various hydrocarbons

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

DISTILLATES (PETROLEUM), HYDROTREATED : LD 50 Rat: > 15 g/kg
HEAVY PARAFFINIC

Acute inhalation toxicity

DISTILLATES (PETROLEUM), HYDROTREATED : no data available
HEAVY PARAFFINIC

Acute dermal toxicity

DISTILLATES (PETROLEUM), HYDROTREATED : LD 50 Rabbit: > 5 g/kg
HEAVY PARAFFINIC

12. ECOLOGICAL INFORMATION

Biodegradability

DISTILLATES (PETROLEUM), HYDROTREATED : no data available
HEAVY PARAFFINIC

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Bioaccumulation

DISTILLATES (PETROLEUM), HYDROTREATED : no data available
HEAVY PARAFFINIC

Ecotoxicity effects

Toxicity to fish

DISTILLATES (PETROLEUM), HYDROTREATED : no data available
HEAVY PARAFFINIC

Toxicity to daphnia and other aquatic invertebrates.

DISTILLATES (PETROLEUM), HYDROTREATED : no data available
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Toxicity to algae

DISTILLATES (PETROLEUM), HYDROTREATED : no data available
HEAVY PARAFFINIC

Toxicity to bacteria

DISTILLATES (PETROLEUM), HYDROTREATED : no data available
HEAVY PARAFFINIC

Biochemical Oxygen Demand (BOD)

DISTILLATES (PETROLEUM), HYDROTREATED : no data available
HEAVY PARAFFINIC

Chemical Oxygen Demand (COD)

DISTILLATES (PETROLEUM), HYDROTREATED : no data available
HEAVY PARAFFINIC

Additional ecological information

DISTILLATES (PETROLEUM), HYDROTREATED : no data available
HEAVY PARAFFINIC

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.

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14. TRANSPORT INFORMATION

REGULATION

| ID NUMBER | PROPER SHIPPING NAME | *HAZARD CLASS | SUBSIDIARY HAZARDS | PACKING GROUP | MARINE POLLUTANT / LTD. QTY. |
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods

TRANSPORT CANADA - RAIL

Not dangerous goods

TRANSPORT CANADA - ROAD

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

U.S. DOT - RAIL

Not dangerous goods

U.S. DOT - ROAD

Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

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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

Acute Health Hazard

New Jersey RTK Label Information

POLYMER 68037-01-4
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY
PARAFFINIC
VISCOSITY MODIFIER
LUBRICANT ADDITIVE
DI-TERT-BUTYL POLYSULFIDE 68937-96-2

Pennsylvania RTK Label Information

POLYMER 68037-01-4
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY
PARAFFINIC
VISCOSITY MODIFIER
LUBRICANT ADDITIVE

Notification status

EU. EINECS y (positive listing)
US. Toxic Substances Control Act y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA). y (positive listing)
Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)
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)

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China. Inventory of Existing Chemical Substances y (positive listing)
New Zealand. Inventory of Chemicals (NZIoC), as published n (Negative listing)
by ERMA New Zealand

| | HMIS | NFPA |
|------------------|-------------|-------------|
| Health | 1 | 1 |
| Flammability | 1 | 1 |
| Physical hazards | 0 | |
| Instability | | 0 |
| Specific Hazard | -- | -- |

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).