

VALVOLINE® HD SYNTHETIC SAE 75W-90
SYNTHETIC GEAR OIL
VV70027

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

Ashland P.O. Box 2219 Columbus, OH 43216	Regulatory Information Number Telephone Emergency telephone	1-800-325-3751 614-790-3333 1-800-ASHLAND (1-800-274-5263)
Product name	VALVOLINE® HD SYNTHETIC SAE 75W-90 SYNTHETIC GEAR OIL	
Product code	VV70027	
Product Use Description	No data	

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid,, dark

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.

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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.

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: irritation (nose, throat, airways), stomach or intestinal upset (nausea, vomiting, diarrhea)

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

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No.	Concentration
LUBRICANT - PROPRIETARY COMPOSITION		>=90-<=100%
MIXTURE OF OLEFIN SULFIDE, H2OP4 ESTER, AMINE SALTS, ALKYL SULFIDE, ALKENYLAMIDE AND OTHER INGREDIENTS		>=10-<15%

4. FIRST AID MEASURES

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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

First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.

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

Foam, Carbon dioxide (CO2), Dry chemical

Hazardous combustion products

Aldehydes, carbon dioxide and carbon monoxide, hydrogen sulfide, sulfur oxides

Precautions for fire-fighting

No special fire hazards are known to be associated with this product. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). DO NOT direct a solid stream of water

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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

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. Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks.

Environmental precautions

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

Methods for cleaning up

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

7. HANDLING AND STORAGE

Handling

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 this material.

Storage

Store in a cool, dry, ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

General advice

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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 such as:

Nitrile rubber

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	dark
Odour	mild
Boiling point/boiling range	No data
pH	No data
Flash point	204.00 °C Closed Cup
Evaporation rate	No data
Lower explosion limit/Upper explosion limit	No data
Vapour pressure	No data
Vapour density	No data

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Density	0.8780 g/cm ³ @ 60.01 °F / 15.56 °C
Solubility	insoluble in water
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

excessive heat

Incompatible products

Avoid contact with:, strong oxidizing agents, acids, Bases

Hazardous decomposition products

Aldehydes, carbon dioxide and carbon monoxide, Hydrocarbons, hydrogen sulfide, Sulphur oxides, thiols

Hazardous reactions

No data

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

LUBRICANT - PROPRIETARY COMPOSITION	: no data available
MIXTURE OF OLEFIN SULFIDE, H2OP4 ESTER, AMINE SALTS, ALKYLSULFIDE, ALKENYLAMIDE AND OTHER INGREDIENTS	: no data available

Acute inhalation toxicity

LUBRICANT - PROPRIETARY COMPOSITION	: no data available
MIXTURE OF OLEFIN SULFIDE, H2OP4 ESTER, AMINE SALTS, ALKYLSULFIDE,	: no data available

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ALKENYLAMIDE AND OTHER INGREDIENTS

Acute dermal toxicity

LUBRICANT - PROPRIETARY COMPOSITION : no data available
MIXTURE OF OLEFIN SULFIDE, H2OP4 ESTER, : no data available
AMINE SALTS, ALKYL SULFIDE,
ALKENYLAMIDE AND OTHER INGREDIENTS

12. ECOLOGICAL INFORMATION

Biodegradability

LUBRICANT - PROPRIETARY COMPOSITION : no data available
MIXTURE OF OLEFIN SULFIDE, H2OP4 ESTER, : no data available
AMINE SALTS, ALKYL SULFIDE,
ALKENYLAMIDE AND OTHER INGREDIENTS

Bioaccumulation

LUBRICANT - PROPRIETARY COMPOSITION : no data available
MIXTURE OF OLEFIN SULFIDE, H2OP4 ESTER, : no data available
AMINE SALTS, ALKYL SULFIDE,
ALKENYLAMIDE AND OTHER INGREDIENTS

Ecotoxicity effects

Toxicity to fish

LUBRICANT - PROPRIETARY COMPOSITION : no data available
MIXTURE OF OLEFIN SULFIDE, H2OP4 ESTER, : no data available
AMINE SALTS, ALKYL SULFIDE,
ALKENYLAMIDE AND OTHER INGREDIENTS

Toxicity to daphnia and other aquatic invertebrates.

LUBRICANT - PROPRIETARY COMPOSITION : no data available
MIXTURE OF OLEFIN SULFIDE, H2OP4 ESTER, : no data available
AMINE SALTS, ALKYL SULFIDE,
ALKENYLAMIDE AND OTHER INGREDIENTS

Toxicity to algae

LUBRICANT - PROPRIETARY COMPOSITION : no data available
MIXTURE OF OLEFIN SULFIDE, H2OP4 ESTER, : no data available
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Toxicity to bacteria

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LUBRICANT - PROPRIETARY COMPOSITION : no data available
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ALKENYLAMIDE AND OTHER INGREDIENTS

Biochemical Oxygen Demand (BOD)

LUBRICANT - PROPRIETARY COMPOSITION : no data available
MIXTURE OF OLEFIN SULFIDE, H2OP4 ESTER, : no data available
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ALKENYLAMIDE AND OTHER INGREDIENTS

Chemical Oxygen Demand (COD)

LUBRICANT - PROPRIETARY COMPOSITION : no data available
MIXTURE OF OLEFIN SULFIDE, H2OP4 ESTER, : no data available
AMINE SALTS, ALKYL SULFIDE,
ALKENYLAMIDE AND OTHER INGREDIENTS

Additional ecological information

LUBRICANT - PROPRIETARY COMPOSITION : no data available
MIXTURE OF OLEFIN SULFIDE, H2OP4 ESTER, : no data available
AMINE SALTS, ALKYL SULFIDE,
ALKENYLAMIDE AND OTHER INGREDIENTS

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

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT /LTD. QTY.
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MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Not dangerous goods

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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**

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

WARNING! This product contains a chemical known in the State of California to cause cancer.

ANILINE
LEAD
2-NAPHTHALENAMINE

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ETHYL ACRYLATE

WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm. LEAD

SARA Hazard Classification
No SARA Hazards

New Jersey RTK Label Information
LUBRICANT - PROPRIETARY COMPOSITION
MIXTURE OF OLEFIN SULFIDE, H2OP4 ESTER, AMINE SALTS,
ALKYLSULFIDE, ALKENYLAMIDE AND OTHER INGREDIENTS

Pennsylvania RTK Label Information
LUBRICANT - PROPRIETARY COMPOSITION
MIXTURE OF OLEFIN SULFIDE, H2OP4 ESTER, AMINE SALTS,
ALKYLSULFIDE, ALKENYLAMIDE AND OTHER INGREDIENTS

Notification status

US. Toxic Substances Control Act	y (positive listing)
Switzerland. Consolidated Inventory	y (positive listing)
Japan. Kashin-Hou Law List	y (positive listing)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	n (Negative listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	y (positive listing)
China. Inventory of Existing Chemical Substances	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act	y (positive listing)
Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	y (positive listing)

	HMIS	NFPA
Health	1	0
Flammability	1	1
Physical hazards	0	

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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).