

<b>ASHLAND®</b>		Page: 1
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 2/2/2016
		SDS Number: R0172170
Valvoline™ GM MULTIPURPOSE GREASE VV612		Version: 1.0

29 CFR 1910.1200 (OSHA HazCom 2012)

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

Trade name : Valvoline™ GM MULTIPURPOSE GREASE

### Recommended use of the chemical and restrictions on use

<b>Details of the supplier of the safety data sheet</b> Ashland P.O. Box 2219 Columbus, OH 43216 United States of America  EHS Customer Requests@ashland.com	<b>Emergency telephone number</b> 1-800-ASHLAND (1-800-274-5263)  <b>Regulatory Information Number</b> 1-800-325-3751  <b>Product Information</b> 614-790-3333
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## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

### GHS Label element

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Defatter

### Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	64742-65-0	Asp. Tox. 1; H304	74.99
ASPHALT	8052-42-4	Not a hazardous	24.99

<b>ASHLAND®</b>		Page: 2
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 2/2/2016
		SDS Number: R0172170
Valvoline™ GM MULTIPURPOSE GREASE		Version: 1.0
VV612		

		substance or mixture.	
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA	64742-52-5	Not a hazardous substance or mixture.	9.99

#### SECTION 4. FIRST AID MEASURES

- General advice : No hazards which require special first aid measures.
- If inhaled : If breathed in, move person into fresh air.  
If unconscious place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : Remove contact lenses.  
Protect unharmed eye.
- If swallowed : Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : 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.
- 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)
- Notes to physician : No hazards which require special first aid measures.

<b>ASHLAND®</b>		Page: 3
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 2/2/2016
		SDS Number: R0172170
Valvoline™ GM MULTIPURPOSE GREASE		Version: 1.0
VV612		

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## SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Carbon dioxide (CO2)  
Dry chemical
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : carbon dioxide and carbon monoxide  
sulfur oxides  
Hydrocarbons  
Aldehydes  
Ketones  
Nitrogen oxides (NOx)  
Sulphur oxides
- Specific extinguishing methods :  
  
Product is compatible with standard fire-fighting agents.
- Further information : Standard procedure for chemical fires.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.
- Other information : Comply with all applicable federal, state, and local regulations.

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## SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.

<b>ASHLAND®</b>		Page: 4
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 2/2/2016
		SDS Number: R0172170
Valvoline™ GM MULTIPURPOSE GREASE VV612		Version: 1.0

Conditions for safe storage : Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	64742-65-0	REL	500 ppm 2,000 mg/m3	OSHA_TRANS
		REL	5 mg/m3 Mist.	NIOSH/GUIDE
		STEL	10 mg/m3 Mist.	NIOSH/GUIDE
		REL	5 mg/m3 Mist.	OSHA_TRANS
		TWA	5 mg/m3 Mist.	Z1A
		TWA	400 ppm 1,600 mg/m3	Z1A
ASPHALT	8052-42-4	TWA	0.5 mg/m3 Inhalable fraction. (as benzene solubles)	ACGIH
		Ceil_Time	5 mg/m3 Fume.	NIOSH/GUIDE
		REL	500 ppm 2,000 mg/m3	OSHA_TRANS
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA	64742-52-5	REL	5 mg/m3 Mist.	NIOSH/GUIDE
		STEL	10 mg/m3 Mist.	NIOSH/GUIDE
		REL	5 mg/m3 Mist.	OSHA_TRANS

**Engineering measures** : 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.

<b>ASHLAND®</b>		Page: 5
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 2/2/2016
		SDS Number: R0172170
Valvoline™ GM MULTIPURPOSE GREASE		Version: 1.0
VV612		

#### Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- 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 as appropriate:  
Safety shoes  
Wear resistant gloves (consult your safety equipment supplier).
- Hygiene measures : General industrial hygiene practice.

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#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : gel
- Physical state : liquid
- Colour : red
- Odour : No data available
- Odour Threshold : No data available
- pH : No data available
- Melting point/freezing point : No data available  
: 640 °F / 338 °C
- Flash point : 471 °F / 244 °C
- Evaporation rate : No data available
- Flammability (solid, gas) : No data available
- Upper explosion limit : No data available
- Lower explosion limit : No data available
- Vapour pressure : < 0.01 mmHg (20 °C)
- Relative vapour density : No data available
- Relative density : 0.95 (15.6 °C)

<b>ASHLAND®</b>		Page: 6
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 2/2/2016
		SDS Number: R0172170
Valvoline™ GM MULTIPURPOSE GREASE		Version: 1.0
VV612		

Density : 0.90 g/cm<sup>3</sup> (20 °C)

Solubility(ies)  
 Water solubility : negligible  
 Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : > 315 °C

Thermal decomposition : No data available

Viscosity  
 Viscosity, dynamic : No data available  
 Viscosity, kinematic : > 20.5 mm<sup>2</sup>/s (40 °C)

Oxidizing properties : No data available

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## SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : carbon dioxide and carbon monoxide  
 Hydrocarbons  
 Sulphur oxides

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## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation  
 Skin contact  
 Eye Contact  
 Ingestion

### **Acute toxicity**

Not classified based on available information.

### **Product:**

<b>ASHLAND</b>		Page: 7
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 2/2/2016
		SDS Number: R0172170
Valvoline™ GM MULTIPURPOSE GREASE		Version: 1.0
VV612		

Acute oral toxicity : Acute toxicity estimate (Rat): 3,019 mg/kg

Acute dermal toxicity : Acute toxicity estimate (Rabbit): 169,492 mg/kg

**Components:**

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

Acute oral toxicity : LD 50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): > 5,000 mg/kg

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA:

Acute oral toxicity : LD 50 (Rat): > 5 g/kg

Acute inhalation toxicity : LC50 (Rat): > 5.53 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: Not classified as acutely toxic by inhalation under GHS.

Acute dermal toxicity : LD 50 (Rabbit): > 2,000 mg/kg

Assessment: Not classified as acutely toxic by dermal absorption under GHS.

Remarks: No mortality observed at this dose.

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Result: Not irritating to skin

Result: Repeated exposure may cause skin dryness or cracking.

**Components:**

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

Result: Mildly irritating to skin

ASPHALT:

Result: Not irritating to skin

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA:

Species: Rabbit

Result: Not irritating to skin

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Result: Not irritating to eyes

Remarks: Unlikely to cause eye irritation or injury.

**Components:**

<b>ASHLAND®</b>		Page: 8
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 2/2/2016
		SDS Number: R0172170
Valvoline™ GM MULTIPURPOSE GREASE		Version: 1.0
VV612		

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:  
Result: Mildly irritating to eyes

ASPHALT:  
Result: Possibly irritating to eyes

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA:  
Species: Rabbit  
Result: Mildly irritating to eyes

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.  
Respiratory sensitisation: Not classified based on available information.

**Components:**

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA:  
Species: Guinea pig  
Assessment: Does not cause skin sensitisation.  
Method: OECD Test Guideline 406

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Product:**

No aspiration toxicity classification

**Components:**

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:  
May be fatal if swallowed and enters airways.

**Further information**

**Product:**

Remarks: No data available

**Carcinogenicity:**

**IARC** Group 2B: Possibly carcinogenic to humans

ASPHALT 8052-42-4

**OSHA** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.



<b>ASHLAND®</b>		Page: 9
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 2/2/2016
		SDS Number: R0172170
Valvoline™ GM MULTIPURPOSE GREASE		Version: 1.0
VV612		

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHA:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
 Exposure time: 96 h  
 Test Type: static test  
 Test substance: WAF  
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 10,000 mg/l  
 Exposure time: 48 h  
 Test Type: static test  
 Test substance: WAF  
 Method: OECD Test Guideline 202

Toxicity to algae : NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Test substance: WAF  
 Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEL (Daphnia (water flea)): 10 mg/l  
 Exposure time: 21 d  
 Test Type: semi-static test  
 Test substance: WAF  
 Method: OECD Test Guideline 211

### Persistence and degradability

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHA:

Biodegradability : Result: Inherently biodegradable  
 Biodegradation: 31 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301F

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

### Product:

Additional ecological information : No data available

<b>ASHLAND®</b>		Page: 10
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 2/2/2016
		SDS Number: R0172170
Valvoline™ GM MULTIPURPOSE GREASE		Version: 1.0
VV612		

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

General advice : Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.

**SECTION 14. TRANSPORT INFORMATION**

**International transport regulations**

**REGULATION**

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

**U.S. DOT - ROAD**

Not dangerous goods

**U.S. DOT - RAIL**

Not dangerous goods

**U.S. DOT - INLAND WATERWAYS**

Not dangerous goods

**TRANSPORT CANADA - ROAD**

Not dangerous goods

**TRANSPORT CANADA - RAIL**

Not dangerous goods

**TRANSPORT CANADA - INLAND WATERWAYS**

Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS**

Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

Not dangerous goods

<b>ASHLAND®</b>		Page: 11
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 2/2/2016
		SDS Number: R0172170
Valvoline™ GM MULTIPURPOSE GREASE		Version: 1.0
VV612		

**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

Marine pollutant	no
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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.

**SECTION 15. REGULATORY INFORMATION**

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 313 Component(s) SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65** Proposition 65 warnings are not required for this product based on the results of a risk assessment.

**The components of this product are reported in the following inventories:**

- TSCA : On TSCA Inventory
- AUSTR : On the inventory, or in compliance with the inventory
- DSL : All components of this product are on the Canadian DSL.
- ENCS : On the inventory, or in compliance with the inventory
- KECL : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECL (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

<b>ASHLAND</b>		Page: 12
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 2/2/2016
		SDS Number: R0172170
Valvoline™ GM MULTIPURPOSE GREASE		Version: 1.0
VV612		

## SECTION 16. OTHER INFORMATION

### Further information

Revision Date: 05/23/2015

<b>NFPA:</b>	<b>HMIS III:</b>						
<p>Flammability</p> <p>Health: 1</p> <p>Instability: 0</p> <p>Special hazard.</p>	<table border="1"> <tr> <td><b>HEALTH</b></td> <td><b>1</b></td> </tr> <tr> <td><b>FLAMMABILITY</b></td> <td><b>1</b></td> </tr> <tr> <td><b>PHYSICAL HAZARD</b></td> <td><b>0</b></td> </tr> </table> <p>0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic</p>	<b>HEALTH</b>	<b>1</b>	<b>FLAMMABILITY</b>	<b>1</b>	<b>PHYSICAL HAZARD</b>	<b>0</b>
<b>HEALTH</b>	<b>1</b>						
<b>FLAMMABILITY</b>	<b>1</b>						
<b>PHYSICAL HAZARD</b>	<b>0</b>						

### NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

### Full text of H-Statements referred to under sections 2 and 3.

H304 May be fatal if swallowed and enters airways.

Sources of key data used to compile the Safety Data Sheet

Ashland internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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 SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

<b>ASHLAND®</b>		Page: 13
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 2/2/2016
		SDS Number: R0172170
Valvoline™ GM MULTIPURPOSE GREASE		Version: 1.0
VV612		

IATA-DGR : Dangerous Goods Regulation by the “International Air Transport Association” (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the “International Civil Aviation Organization”

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx : Lethal Dose, for xx percent of test population.

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value

TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act

DOT : Department of Transportation

FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act

HMIRC : Hazardous Materials Information Review Commission

HMIS : Hazardous Materials Identification System

NFPA : National Fire Protection Association

NIOSH : National Institute for Occupational Safety and Health

OSHA : Occupational Safety and Health Administration

PMRA : Health Canada Pest Management Regulatory Agency

RTK : Right to Know

WHMIS : Workplace Hazardous Materials Information System