



MATERIAL SAFETY DATA SHEET • 602-670 • GM Wheel Bearing Grease**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

Product name	VALVOLINE® GM MULTIPURPOSE GREASE
Product code	VV6146
Product Use Description	No data

2. HAZARDS IDENTIFICATION**Emergency Overview**

Appearance: solid, amber

CAUTION! PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

Potential Health Effects**Exposure routes**

Inhalation, Skin contact, Eye Contact, Ingestion

Eye contact

May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

Skin contact

May cause skin irritation. Symptoms may include redness, burning, and swelling of 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).

Reproductive hazard

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

3. COMPOSITION/INFORMATION ON INGREDIENTS
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Hazardous Components	CAS-No.	Concentration
HIGHLY REFINED PETROLEUM OILS		>=80-<90%
OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT	7620-77-1	>=10-<15%
LITHIUM CARBOXYLATE		>=1.5-<5%
ZINC COMPOUNDS	68649-42-3	>=1.5-<5%

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

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse. Hydrocarbons injected into the skin under pressure can cause severe injury. In the event of a high pressure injection injury, worker should obtain immediate medical assistance.

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.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray, Foam, Dry chemical, Carbon dioxide (CO₂)

Hazardous combustion products

carbon dioxide and carbon monoxide, hydrogen sulfide, zinc oxide, oxides of sulfur, nitrogen and phosphorus, Amines

Precautions for fire-fighting

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. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

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.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up

Shovel material into containers and apply oil absorbing material to effect complete clean-up.

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

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection

Wear resistant gloves such as:

Neoprene

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	solid
Form	gel
Colour	amber
Odour	no data available
Boiling point/boiling range	no data available
Melting point/range	no data available
Sublimation point	no data available
pH	no data available
Flash point	450 °F / 232 °C
Ignition temperature	no data available
Evaporation rate	no data available
Lower explosion limit/Upper explosion limit	no data available
Particle size	no data available
Vapour pressure	2.000 hPa Calculated Vapor Pressure
Relative vapour density	no data available
Density	0.86 g/cm ³ @ 60.1 °F / 15.6 °C
Bulk density	No data
Water solubility	negligible
Solubility	no data available
Partition coefficient: n-octanol/water	no data available
log Pow	no data available
Autoignition temperature	no data available
Viscosity, dynamic	no data available
Viscosity, kinematic	no data available
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

excessive heat

Incompatible products

Strong oxidizing agents

Hazardous decomposition products

carbon dioxide and carbon monoxide

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

HIGHLY REFINED PETROLEUM OILS	:	no data available
OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT	:	no data available
LITHIUM CARBOXYLATE	:	no data available
ZINC COMPOUNDS	:	LD 50 Rat: 2,000 - 5,000 mg/kg

Acute inhalation toxicity

HIGHLY REFINED PETROLEUM OILS	:	no data available
OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT	:	no data available
LITHIUM CARBOXYLATE	:	no data available
ZINC COMPOUNDS	:	no data available

Acute dermal toxicity

HIGHLY REFINED PETROLEUM OILS	:	no data available
OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT	:	no data available
LITHIUM CARBOXYLATE	:	no data available
ZINC COMPOUNDS	:	LD 50 Rabbit: (>) 2,000 mg/kg

12. ECOLOGICAL INFORMATION

Biodegradability

HIGHLY REFINED PETROLEUM OILS	:	no data available
OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT	:	no data available
LITHIUM CARBOXYLATE	:	no data available
ZINC COMPOUNDS	:	no data available

Bioaccumulation

HIGHLY REFINED PETROLEUM OILS	:	no data available
OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT	:	no data available
LITHIUM CARBOXYLATE	:	no data available
ZINC COMPOUNDS	:	no data available

Ecotoxicity effects**Toxicity to fish**

HIGHLY REFINED PETROLEUM OILS	:	no data available
OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT	:	no data available
LITHIUM CARBOXYLATE	:	no data available
ZINC COMPOUNDS	:	no data available

Toxicity to daphnia and other aquatic invertebrates.

HIGHLY REFINED PETROLEUM OILS	:	no data available
OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT	:	no data available
LITHIUM CARBOXYLATE	:	no data available
ZINC COMPOUNDS	:	no data available

Toxicity to algae

HIGHLY REFINED PETROLEUM OILS	:	no data available
OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT	:	no data available
LITHIUM CARBOXYLATE	:	no data available
ZINC COMPOUNDS	:	no data available

Toxicity to bacteria

HIGHLY REFINED PETROLEUM OILS	:	no data available
OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT	:	no data available
LITHIUM CARBOXYLATE	:	no data available
ZINC COMPOUNDS	:	no data available

Biochemical Oxygen Demand (BOD)

HIGHLY REFINED PETROLEUM OILS	:	no data available
OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT	:	no data available
LITHIUM CARBOXYLATE	:	no data available
ZINC COMPOUNDS	:	no data available

Chemical Oxygen Demand (COD)

HIGHLY REFINED PETROLEUM OILS	:	no data available
OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT	:	no data available
LITHIUM CARBOXYLATE	:	no data available
ZINC COMPOUNDS	:	no data available

Additional ecological information

HIGHLY REFINED PETROLEUM OILS : no data available

OCTADECANOIC ACID, 12-HYDROXY-,
MONOLITHIUM SALT : no data available

LITHIUM CARBOXYLATE : no data available

ZINC COMPOUNDS : no data available

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.

14. TRANSPORT INFORMATION**REGULATION**

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

Mid America Motorworks, 17082 N. US Hwy 45, P.O. Box 1368, Effingham, IL 62401

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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.	
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SARA Hazard Classification

No SARA Hazards

SARA 313 Component(s)

ZINC COMPOUNDS	1.99 %
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New Jersey RTK Label Information

HIGHLY REFINED PETROLEUM OILS	
OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT	7620-77-1
LITHIUM CARBOXYLATE	
ZINC COMPOUNDS	68649-42-3
PROPRIETARY LUBRICANT ADDITIVE	

Pennsylvania RTK Label Information

HIGHLY REFINED PETROLEUM OILS	
OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT	7620-77-1
LITHIUM CARBOXYLATE	

Notification status

US. Toxic Substances Control Act	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)
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)
China. Inventory of Existing Chemical Substances	y (positive listing)

Mid America Motorworks, 17082 N. US Hwy 45, P.O. Box 1368, Effingham, IL 62401

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	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.