

VALVOLINE® MOLY FORTIFIED
MULTIPURPOSE GREASE
VV633

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION 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® MOLY FORTIFIED MULTIPURPOSE GREASE	
Product code	VV633	
Product Use Description	No data	

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid,, grey

CAUTION! MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE DERMATITIS AND BURNS.

Potential Health Effects

Routes of exposure

Skin contact, Inhalation, Eye Contact, Ingestion

Eye contact

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin contact

Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, burns and other skin damage.

Ingestion

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

VALVOLINE® MOLY FORTIFIED
MULTIPURPOSE GREASE
VV633

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

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

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Concentration
PETROLEUM DISTILLATE	NJTS# 800986-5245P	>=50-<60%
RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED	64742-62-7	>=30-<40%
OLEFIN POLYMER	NJTS# 254504001-5128	>=5-<10%
MOLYBDENUM DISULFIDE	1317-33-5	>=1.5-<5%
ZINC C1-C14	68649-42-3	>=1.5-<5%
ALKYLDITHIOPHOSPHATE		

VALVOLINE® MOLY FORTIFIED
MULTIPURPOSE GREASE
VV633

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.

Ingestion

Do not induce vomiting. Give one glass of milk or water, and get medical attention immediately. If possible, do not leave victim 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: No information available.

Treatment: No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO₂), Dry chemical, Foam

Hazardous combustion products

May form: carbon dioxide and carbon monoxide, 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. 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

VALVOLINE® MOLY FORTIFIED
MULTIPURPOSE GREASE
VV633

fire intensity. Frothing can be violent and possibly endanger any firefighter standing too close to the burning liquid.

Flammability Class for Flammable Liquids
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

Scoop or scrape up. Put in container for recovery or disposal. Wash walking surfaces with detergent and water to reduce slipping hazard.

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, away from incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

PETROLEUM DISTILLATE		NJTS# 800986-5245P
OSHA Z1	Permissible exposure limit	500 ppm
OSHA Z1	Permissible exposure limit	2,000 mg/m3
OSHA Z1A	time weighted average	400 ppm
OSHA Z1A	time weighted average	1,600 mg/m3
US CA OEL	Time Weighted Average (TWA)	400 ppm
	Permissible Exposure Limit (PEL):	

VALVOLINE® MOLY FORTIFIED
MULTIPURPOSE GREASE
VV633

US CA OEL	Time Weighted Average (TWA)	1,600 mg/m3	
	Permissible Exposure Limit (PEL):		
ACGIH	time weighted average	5 mg/m3	Mist.
ACGIH	Short term exposure limit	10 mg/m3	Mist.
ACGIH NIC	time weighted average	0.2 mg/m3	Inhalable fraction.

OLEFIN POLYMER

NJTS# **254504001-5128**

ACGIH	time weighted average	10 mg/m3	Inhalable particles.
ACGIH	time weighted average	3 mg/m3	Respirable particles.
OSHA Z1	Permissible exposure limit	5 mg/m3	Respirable fraction.
OSHA Z1	Permissible exposure limit	15 mg/m3	Total dust.
OSHA Z1A	time weighted average	5 mg/m3	Respirable fraction.
OSHA Z1A	time weighted average	15 mg/m3	Total dust.
US CA OEL	Time Weighted Average (TWA)	5 mg/m3	Respirable fraction.
	Permissible Exposure Limit (PEL):		
US CA OEL	Time Weighted Average (TWA)	10 mg/m3	Total dust.
	Permissible Exposure Limit (PEL):		
US CA OEL	Time Weighted Average (TWA)	5 mg/m3	Respirable fraction.
	Permissible Exposure Limit (PEL):		
US CA OEL	Time Weighted Average (TWA)	10 mg/m3	Total dust.
	Permissible Exposure Limit (PEL):		
US CA OEL	Time Weighted Average (TWA)	5 mg/m3	Respirable fraction.
	Permissible Exposure Limit (PEL):		
US CA OEL	Time Weighted Average (TWA)	10 mg/m3	Total dust.
	Permissible Exposure Limit (PEL):		

MOLYBDENUM DISULFIDE

1317-33-5

ACGIH	time weighted average	10 mg/m3	Inhalable fraction.
ACGIH	time weighted average	3 mg/m3	Respirable fraction.
OSHA Z1	Permissible exposure limit	15 mg/m3	Total dust.
OSHA Z1A	time weighted average	10 mg/m3	Total dust.
US CA OEL	Time Weighted Average (TWA)	10 mg/m3	
	Permissible Exposure Limit (PEL):		

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

VALVOLINE® MOLY FORTIFIED
MULTIPURPOSE GREASE
VV633

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 normal work clothing covering arms and legs.

Wear resistant gloves such as:

- Neoprene
- polyvinyl chloride
- butyl-rubber
- Natural Rubber

Respiratory protection

Respiratory protection is not required under normal conditions of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Form	paste
Colour	grey
Odour	hydrocarbon-like
Boiling point/boiling range	260.00 °C / 500 °F
pH	No data
Flash point	441 °F / 227 °C
Evaporation rate	No data
Explosion limits	No data
Vapour pressure	No data
Vapour density	No data
Density	0.86 g/cm ³ @ 60.1 °F / 15.6 °C
Solubility	No data
Partition coefficient: n-octanol/water	negligible in water
log Pow	No data
Autoignition temperature	no data available
	No data

VALVOLINE® MOLY FORTIFIED
MULTIPURPOSE GREASE
VV633

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, Hydrocarbons

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

PETROLEUM DISTILLATE	LD 50 Rat: > 5,000 mg/kg
RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED	no data available
OLEFIN POLYMER	LD 50 Rat: > 3,000 mg/kg
MOLYBDENUM DISULFIDE	LD Lo Rat: 6 g/kg
ZINC C1-C14 ALKYL DITHIOPHOSPHATE	LD 50 Rat: 2,000 - 5,000 mg/kg

Acute inhalation toxicity

PETROLEUM DISTILLATE	no data available
RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED	no data available
OLEFIN POLYMER	no data available
MOLYBDENUM DISULFIDE	LC 50 Rat: > 2,820 mg/m ³ , 4 h
ZINC C1-C14 ALKYL DITHIOPHOSPHATE	no data available

VALVOLINE® MOLY FORTIFIED
MULTIPURPOSE GREASE
VV633

Acute dermal toxicity

PETROLEUM DISTILLATE	LD 50 Rabbit: > 5,000 mg/kg
RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED	no data available
OLEFIN POLYMER	no data available
MOLYBDENUM DISULFIDE	no data available
ZINC C1-C14 ALKYLDITHIOPHOSPHATE	LD 50 Rabbit: > 2,000 mg/kg

12. ECOLOGICAL INFORMATION

Aquatic toxicity

Acute and Prolonged Toxicity to Fish

No data

Acute Toxicity to Aquatic Invertebrates

No data

Environmental fate and pathways

No data

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

Dangerous goods descriptions (if indicated above) may not reflect package size, quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

VALVOLINE® MOLY FORTIFIED
MULTIPURPOSE GREASE
VV633

15. REGULATORY INFORMATION

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

SARA Hazard Classification Acute Health Hazard
Chronic Health Hazard

SARA 313 Component(s)

ZINC C1-C14	68649-42-3	1.999%
ALKYLDITHIOPHOSPHAT E		

Reportable quantity - Components

PETROLEUM DISTILLATE	NJTS# 800986-5245P	none
RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED	64742-62-7	none
OLEFIN POLYMER	NJTS# 254504001-5128	none
MOLYBDENUM DISULFIDE	1317-33-5	none
ZINC C1-C14	68649-42-3	none
ALKYLDITHIOPHOSPHATE		

	Health	Flammability	Reactivity	Other
HMIS	1	1	0	
NFPA	1	1	0	

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).