

Revision Date: 05/01/2013

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MSDS Number: R0076416

Version: 1.13

Valvoline™ MOLY FORTIFIED MULTIPURPOSE
GREASE
VV632

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 number	1-800-ASHLAND (1-800-274-5263)
Product name	Valvoline™ MOLY FORTIFIED MULTIPURPOSE GREASE	
Product code	VV632	

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, paste, grey

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

Potential Health Effects

Exposure routes

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.

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

Valvoline™ MOLY FORTIFIED MULTIPURPOSE
GREASE
VV632

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. / Trade Secret No.	Concentration
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	64742-65-0	>=50-<60%
RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED	64742-62-7	>=30-<40%
OLEFIN POLYMER	9002-88-4	>=5-<10%
MOLYBDENUM DISULFIDE	1317-33-5	>=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

Do not induce vomiting. Give one glass of milk or water, and get medical attention immediately. If possible, do not leave victim unattended.

Inhalation

Valvoline™ MOLY FORTIFIED MULTIPURPOSE
GREASE
VV632

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. FIREFIGHTING 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 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.

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

ASHLAND®

SAFETY DATA SHEET

Page: 4

Valvoline™ MOLY FORTIFIED MULTIPURPOSE
GREASE
VV632

Revision Date: 05/01/2013

Print Date: 6/4/2013

MSDS Number: R0076416

Version: 1.13

Store in a cool, dry, ventilated area, away from incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED 64742-65-0 HEAVY PARAFFINIC			
OSHA Z1	Permissible exposure limit	500 ppm	
OSHA Z1	Permissible exposure limit	2,000 mg/m3	
NIOSH	Recommended exposure limit (REL):	5 mg/m3	Mist.
NIOSH	Short term exposure limit	10 mg/m3	Mist.
OSHA Z1	Permissible exposure limit	5 mg/m3	Mist.
ACGIH	time weighted average	5 mg/m3	Inhalable fraction.
OLEFIN POLYMER 9002-88-4			
MOLYBDENUM DISULFIDE 1317-33-5			
ACGIH	time weighted average	3 mg/m3	Respirable fraction.
ACGIH	time weighted average	10 mg/m3	Inhalable fraction.
OSHA Z1	Permissible exposure limit	15 mg/m3	Total dust.

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 normal work clothing covering arms and legs.

Wear resistant gloves such as:

Neoprene

polyvinyl chloride

butyl-rubber

ASHLAND®

SAFETY DATA SHEET

Page: 5

Revision Date: 05/01/2013

Print Date: 6/4/2013

MSDS Number: R0076416

Version: 1.13

Valvoline™ MOLY FORTIFIED MULTIPURPOSE
GREASE
VV632

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	500 °F / 260 °C
Flash point	441 °F / 227 °C
Density	0.86 g/cm3 @ 60.1 °F / 15.6 °C
Water solubility	negligible

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.

11. TOXICOLOGICAL INFORMATION

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

Product

ASHLAND®

SAFETY DATA SHEET

Page: 6

Revision Date: 05/01/2013

Print Date: 6/4/2013

MSDS Number: R0076416

Version: 1.13

Valvoline™ MOLY FORTIFIED MULTIPURPOSE
GREASE
VV632

Acute oral toxicity : no data available

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Skin corrosion/irritation : no data available

Serious eye damage/eye irritation : no data available

Respiratory or skin sensitisation : no data available

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

OLEFIN POLYMER:

Acute oral toxicity : LD 50 Rat: > 3,000 mg/kg

MOLYBDENUM DISULFIDE:

Acute oral toxicity : LD Lo Rat: 6 g/kg

Acute inhalation toxicity : LC 50 Rat: > 2,820 mg/m³
Exposure time: 4 h
Slightly toxic by inhalation

ZINC COMPOUNDS:

Acute oral toxicity : LD 50 Rat: 2,000 - 5,000 mg/kg

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

no data available

ASHLAND®

SAFETY DATA SHEET

Page: 7

Revision Date: 05/01/2013

Print Date: 6/4/2013

MSDS Number: R0076416

Version: 1.13

Valvoline™ MOLY FORTIFIED MULTIPURPOSE
GREASE
VV632

Components:

no data available

Persistence and degradability

Product:

no data available

Components:

no data available

Bioaccumulative potential

Product:

no data available

Components:

no data available

Mobility in soil

Product:

no data available

Components:

no data available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

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

14. TRANSPORT INFORMATION

REGULATION

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



SAFETY DATA SHEET

Page: 8

Revision Date: 05/01/2013

Print Date: 6/4/2013

MSDS Number: R0076416

Version: 1.13

Valvoline™ MOLY FORTIFIED MULTIPURPOSE
GREASE
VV632

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

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

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

ASHLAND®

SAFETY DATA SHEET

Page: 9

Revision Date: 05/01/2013

Print Date: 6/4/2013

MSDS Number: R0076416

Version: 1.13

Valvoline™ MOLY FORTIFIED MULTIPURPOSE
GREASE
VV632

SARA Hazard Classification
SARA 311/312 Classification
Acute Health Hazard
Chronic Health Hazard

SARA 313 Component(s)

ZINC COMPOUNDS	1.99 %
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New Jersey RTK Label Information

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	64742-65-0
RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED	64742-62-7
LITHIUM, 12-HYDROXYOCTADECANOATE SEBACATE COMPLEX	68815-49-6
OLEFIN POLYMER	9002-88-4
MOLYBDENUM DISULFIDE	1317-33-5
ZINC COMPOUNDS	68649-42-3

Pennsylvania RTK Label Information

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	64742-65-0
RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED	64742-62-7
LITHIUM, 12-HYDROXYOCTADECANOATE SEBACATE COMPLEX	68815-49-6
OLEFIN POLYMER	9002-88-4

Notification status

US. Toxic Substances Control Act	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act	n (Negative listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	y (positive listing)
Japan. Kashin-Hou Law List	n (Negative listing)
Korea. Toxic Chemical Control Law (TCCL) List	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)

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

16. OTHER INFORMATION

ASHLAND®

SAFETY DATA SHEET

Page: 10

Revision Date: 05/01/2013

Print Date: 6/4/2013

MSDS Number: R0076416

Version: 1.13

Valvoline™ MOLY FORTIFIED MULTIPURPOSE
GREASE
VV632

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).

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.

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