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Revision Date: 03/29/2011

Print Date: 2/9/2012

MSDS Number: R0211744

Version: 1.10

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VALVOLINE® PALLADIUM® #2 WITH MOLY GREASE VV70111

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® PALLADIUM® #2 WITH MOLY GREASE

Product code

VV70111

Product Use Description

No data

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, grey

CAUTION! MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE DERMATITIS AND BURNS. MAY BE HARMFUL IF INHALED.

Potential Health Effects

Exposure routes

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eye contact

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

Skin contact

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



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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. 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

Hazardous Components	CAS-No.	Concentration	
DISTILLATES (PETROLEUM),	64742-52-5	>=80-<90%	
HYDROTREATED HEAVY NAPHT DISTILLATES (PETROLEUM), SOLVENT-	.64742-65-0	>=40-<50%	
DEWAXED HEAVY PARAFFINIC MOLYBDENUM DISULFIDE	1317-33-5	>=5-<10%	
4. FIRST AID MEASURES			



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Eyes

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If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Skin

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

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

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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 longterm 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

Dry chemical, Carbon dioxide (CO2), Water spray

Hazardous combustion products



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Aldehydes, carbon dioxide and carbon monoxide, Ketones

Precautions for fire-fighting

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). 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.

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

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

Methods for cleaning up

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

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. 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.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

			45 _ 50
DISTILLATES (PETROLEU HEAVY NAPHT	A), HYDROTREATED	64742-52-5	le +*
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.
DISTILLATES (PETROLI		64742-65-0	
<u>DEWAXED HEAVY PAR</u>	<u>ÁFFINIC</u>		
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.
NIOŻH	Short term exposure limit	10 mg/m3	Mist.
OSHA ZI	Permissible exposure limit	5 mg/m3	Mist.
ACGIH	time weighted average	5 mg/m3	Inhalable fraction.
MOLYBDENUM DISULF	DE	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

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.





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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 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.

Wear resistant gloves (consult your safety equipment supplier).

Discard gloves that show tears, pinholes, or signs of wear.

Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by airpurifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an airpurifying respirator may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

liquid

Form paste Colour grey

mild Boiling point/boiling range

(>)700 °F / 371 °C

Melting point/range no data available Sublimation point no data

available pH no data available

Flash point

not applicable

no data available

no data available

no data available

no data available

(<)1.000 mmHg @ 100.00 °F / 37.78 °C

no data available

0.8918 g/cm3 @ 77 °F / 25 °C

Ignition temperature **Evaporation** rate Lower explosion limit/Upper explosion limit

Particle size

Vapour pressure

Relative vapour density

Density

SAFETY DATA SHEET

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Bulk density Water solubility Solubility(ies)

No data no data available no data available

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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

10. STABILITY AND REACTIVITY

Stability

Stable.

Minimum ignition energy

Conditions to avoid excessive heat

Incompatible products
Strong oxidizing agents

Hazardous decomposition products
No data

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data



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11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

DISTILLATES (PETROLEUM), HYDROTREATED

HEAVÝ NAPHT

DISTILLATES (PETROLEUM), SOLVENT-

DEWAXED HEAVY PARAFFINIC

VALVOLINE® PALLADIUM® #2 WITH

MOLY GREASE

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QC

MOLYBDENUM DISULFIDE

: LD Lo Rat: 6 g/kg

: LD 50 Rat: > 5 g/kg

: LD 50 Rat: > 5,000 mg/kg

Acute inhalation toxicity

DISTILLATES (PETROLEUM), HYDROTREATED: no data available

HEAVY NAPHT

DISTILLATES (PETROLEUM), SOLVENTDEWAXED: no data available

HEAVY PARAFFINIC

MOLYBDENUM DISULFIDE : LC 50 Rat: > 2,820 mg/m3; 4 h

Acute dermal toxicity

DISTILLATES (PETROLEUM), HYDROTREATED: LD 50

HEAVY NAPHT Rabbit:

> 5 g/kg

DISTILLATES (PETROLEUM), SOLVENTDEWAXED:

HEAVY PARAFFINIC

LD 50

Rabbit:

> 5,000 mg/kg

MOLYBDENUM DISULFIDE

: no data available

12. ECOLOGICAL INFORMATION

Biodegradability

DISTILLATES (PETROLEUM), HYDROTREATED: no data available

HEAVY NAPHT

DISTILLATES (PETROLEUM), SOLVENTDEWAXED: no data available

HEAVY PARAFFINIC

MOLYBDENUM DISULFIDE : no data available

Bioaccumulation

DISTILLATES (PETROLEUM), HYDROTREATED: no data available

HEAVY NAPHT

ASHLAND. SAFETY DATA SHEET

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DISTILLATES (PETROLEUM), SOLVENTDEWAXED: no data available

HEAVY PARAFFINIC

MOLYBDENUM DISULFIDE : no data available

Ecotoxicity effects

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Toxicity to fish

DISTILLATES (PETROLEUM), HYDROTREATED : no data available

HEAVY NAPHT

DISTILLATES (PETROLEUM), SOLVENT: no data available

DEWAXED HEAVY PARAFFINIC

MOLYBDENUM DISULFIDE : no data available

Toxicity to daphnia and other aquatic invertebrates.

DISTILLATES (PETROLEUM), HYDROTREATED: no data available

HEAVY NAPHT

DISTILLATES (PETROLEUM), SOLVENTDEWAXED: no data available

HEAVY PARAFFINIC

MOLYBDENUM DISULFIDE : no data available

Toxicity to algae

DISTILLATES (PETROLEUM), HYDROTREATED: no data available

HEAVY NAPHT

DISTILLATES (PETROLEUM), SOLVENTDEWAXED: no data available

HEAVY PARAFFINIC

MOLYBDENUM DISULFIDE : no data available

Toxicity to bacteria

DISTILLATES (PETROLEUM), HYDROTREATED: no data available

HEAVY NAPHT

DISTILLATES (PETROLEUM), SOLVENTDEWAXED: no data available

HEAVY PARAFFINIC

MOLYBDENUM DISULFIDE : no data available

Biochemical Oxygen Demand (BOD)

DISTILLATES (PETROLEUM), HYDROTREATED: no data available

HEAVY NAPHT

DISTILLATES (PETROLEUM), SOLVENTDEWAXED: no data available

HEAVY PARAFFINIC

MOLYBDENUM DISULFIDE : no data available

Chemical Oxygen Demand (COD)



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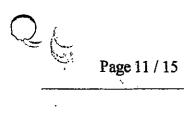
(PETROLEUM), HYDROTREATED: no data available DISTILLATES

HEAVY NAPHT

DISTILLATES (PETROLEUM), SOLVENTDEWAXED: no data available

HEAVY PARAFFINIC

: no data available MOLYBDENUM DISULFIDE





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Additional ecological information

DISTILLATES (PETROLEUM), HYDROTREATED

HEAVY NAPHT : no data available DISTILLATES (PETROLEUM), SOLVENTDEWAXED : no data available

HEAVY PARAFFINIC

MOLYBDENUM DISULFIDE : 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. TRANS	PORT INFORMATION				
•					<u> </u>
REGULATIO	N				
ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT /LTD. QTY.
J.S. DOT - R	OAD		•		•
······································	Not dangerous goods				
U.S. DOT - R	AIL				
	Not dangerous goods				
U.S. DOT - II	NLAND WATERWAYS				
	Not dangerous goods				
TRANSPOR'	T CANADA - ROAD				

Not dangerous goods



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TRANSPORT CANADA - RAIL

Not dangerous goods

TRANSPORT CANADA - INLAND WATERWAYS

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Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

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

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

SARA Hazard Classification

Acute Health Hazard



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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.

New Jersey RTK Label Information

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHT

64742-52-5

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY 64742-65-0 PARAFFINIC

MOLYBDENUM DISULFIDE

1317-33-5

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Pennsylvania RTK Label Information

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHT 64742-52-5

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY 64742-65-0

PARAFFINIC

MOLYBDENUM DISULFIDE 1317-33-5

Notification status

Korea. Toxic Chemical Control Law (TCCL) List y (positive listing)

China. Inventory of Existing Chemical Substances y (positive listing)

Australia. Industrial Chemical (Notification and Assessment) y (positive listing)

Act

New Zealand. Inventory of Chemicals (NZIoC), as published y (positive listing)

by ERMA New Zealand

Philippines. The Toxic Substances and Hazardous and Nuclear y (positive listing)

Waste Control Act

US, Toxic Substances Control Act y (positive listing)

EU, EINECS v (positive listing)

Canada. Canadian Environmental Protection Act (CEPA). y (positive listing)

Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)

	HMIS	NFPA
Health	1	1



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		1 1111 Date. 2/9/2012
Flammability	1	1
Physical hazards	0	
Instability		0
Specific Hazard		
16. OTHER INFORMATION		<u> </u>

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).



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