

Version: 1.5

Revision Date: 07/31/2016

Print Date: 11/3/2016 SDS Number: R0211744

Valvoline[™] Palladium[™] #2 WITH MOLY GREASE

VV70112

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name

: Valvoline™ Palladium™ #2 WITH MOLY GREASE

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet	Emergency telephone number 1-800-VALVOLINE
Valvoline LLC 3499 Blazer Parkway Lexington, KY 40509	Regulatory Information Number 1-800-TEAMVAL
United States of America	Product Information 1-800-TEAMVAL
SDS@valvoline.com	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Skin sensitization	: Category 1
GHS Label element	
Hazard pictograms	
Signal Word	: Warning
Hazard Statements	: May cause an allergic skin reaction.
Precautionary Statements	 Prevention: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. Response: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse. Disposal: Dispose of contents/ container to an approved waste disposal



plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED		Not a hazardous substance or mixture.	85.00
PROPRIETARY CORROSION INHIBITOR		Skin Sens. 1; H317	0.99

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	: May cause an allergic skin reaction.
delayed	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)

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Notes to physician : No hazards which require special first aid measures.

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	
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.	

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	: Keep in suitable, closed containers for disposal.	
Other information	: Comply with all applicable federal, state, and local regulations.	

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.

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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	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	
			concentration	
RESIDUAL OILS	64742-62-7	PEL	500 ppm	OSHA_TRA
(PETROLEUM), SOLVENT-			2,000 mg/m3	NS
DEWAXED				
		REL	5 mg/m3	NIOSH/GUID
			Mist.	E
		STEL	10 mg/m3	NIOSH/GUID
			Mist.	E
		PEL	5 mg/m3	OSHA_TRA
			Mist.	NS

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.

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: paste



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Dhysical state	· liquid	
Physical state	: liquid	
Colour	: grey	
Odour	: mild	
Odour Threshold	: No data available	
рН	: No data available	
	: No data available	
Boiling point/boiling range	: >700 °F / > 371 °C	
Flash point	: > 399 °F / > 204 °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	: <1 mmHg (37.78 °C)	
Relative vapour density	: No data available	
Relative density	: No data available	
Density	: 0.9 g/cm3 (20 °C)	
Solubility(ies) Water solubility	: No data available	
Solubility in other solvents	: No data available	
Partition coefficient: n- octanol/water	: No data available	
Thermal decomposition	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: > 1,000 mm2/s (40 °C)	

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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

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

Not classified based on available information. <u>Components:</u> RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED:			
Acute oral toxicity :	LD 50 (Rat): > 5,000 mg/kg		
Acute inhalation toxicity :	LC50 (Rat): > 5.58 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: Not classified as acutely toxic by inhalation under GHS. Remarks: No mortality observed at this dose.		
Acute dermal toxicity :	LD 50 (Rabbit): > 5,000 mg/kg Remarks: No mortality observed at this dose. LD 50 (Rabbit): > 2,000 mg/kg Assessment: Not classified as acutely toxic by dermal absorption under GHS.		
Skin corrosion/irritation			

Not classified based on available information. <u>Components:</u> RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED: Species: Rabbit Result: Not irritating to skin



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Serious eye damage/eye irritation

Not classified based on available information. Product: Remarks: Unlikely to cause eye irritation or injury.

Components:

RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED: Species: Rabbit Result: Not irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction. Respiratory sensitisation: Not classified based on available information. Components: RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED: Test Type: Buehler Test Species: Guinea pig Assessment: Does not cause skin sensitisation.

PROPRIETARY CORROSION INHIBITOR: Assessment: May cause sensitisation by skin contact.

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. **Components:** RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED: No aspiration toxicity classification

Further information <u>Product:</u> Remarks: No data available

Carcinogenicity: IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
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

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by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity			
Product: Ecotoxicology Assessment Acute aquatic toxicity	: Not classified based on available information.		
Chronic aquatic toxicity	: Not classified based on available information.		
<u>Components:</u> RESIDUAL OILS (PETROLEU	M) SOLVENT-DEWAXED:		
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 Remarks: No toxicity at the limit of solubility 		
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 fish (Chronic toxicity)	: NOELR (Oncorhynchus mykiss (rainbow trout)): Calculated >= 1,000 mg/l Exposure time: 14 d		
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEL (Daphnia (water flea)): 10 mg/l Exposure time: 21 d Test substance: WAF Method: OECD Test Guideline 211		
Persistence and degradability			
<u>Components:</u> RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED:			
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Biodegradation: 2 - 4 % Exposure time: 28 d Method: OECD Test Guideline 301B

Components:		
No data available		
Mobility in soil		
<u>Components:</u> No data available		
Other adverse effects		
No data available		
Product:		
Additional ecological information	: No data available	
Components:		

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	SUBSIDIARY	PACKING	MARINE
		CLASS	HAZARDS	GROUP	POLLUTANT /
					LTD. QTY.

U.S. DOT - ROAD

Not dangerous goods	

CFR_RAIL_C

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

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TDG_ROAD_C

Not dangerous goods

TDG_RAIL_C

Not dangerous goods

TDG_INWT_C

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

MX_DG

Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no

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	Acute Health Hazard
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.
Pennsylvania Right To Know	

5		
RESIDUAL OILS (PETROLEUM),	64742-62-7	70.00 - 90.00 %
SOLVENT-DEWAXED		

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	NONHAZARDOUS COMPONENTS	Not Assigned	20.00 - 30.00 %
	NONHAZARDOUS COMPONENTS	Not Assigned	1.00 - 5.00 %
New Jersey R	i ght To Know RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED	64742-62-7	70.00 - 90.00 %
	NONHAZARDOUS COMPONENTS	Not Assigned	20.00 - 30.00 %
	NONHAZARDOUS COMPONENTS	Not Assigned	1.00 - 5.00 %

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	
DSL :	This product contains one or several components that are not on the Canadian DSL and have annual quantity limits.
AICS :	Not in compliance with the inventory
ENCS :	Not in compliance with the inventory
KECI :	Not in compliance with the inventory
PICCS :	Not 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), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TSCA (USA)

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SECTION 16. OTHER INFORMATION

Further information

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NFPA Flammable and Combustible Liquids Classification Combustible Liquid Class IIIB

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

H317 May cause an allergic skin reaction.

Further information

Sources of key data used to compile the Safety Data Sheet Valvoline 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 Valvoline's Environmental Health and Safety Department (1-800-825-8654).

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



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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