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SAFETY DATA SHEET	Print Date: 11/05/2018
Valvoline® Palladium® #2 WITH MOLY	MSDS Number: R0211744
™ Trademark, Valvoline or its subsidiaries, registered in	Version: 1.1
various countries	
VV70112	

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Valvoline® Palladium® #2 WITH MOLY

™ Trademark, Valvoline or its subsidiaries, registered in various

countries

Product code : VV70112

Company : Valvoline LLC

3499 Blazer Parkway Lexington, KY 40509

United States of America

E-mail address : SDS@valvoline.com Telephone : 1-800-TEAMVAL

Telefax

Emergency telephone number : 1-800-VALVOLINE

2. HAZARDS IDENTIFICATION

GHS Classification

Aspiration hazard : Category 1

GHS-Labelling

Hazard pictograms :

Signal word : Danger

Hazard statements : H304 May be fatal if swallowed and enters airways.

Precautionary statements : Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER or doctor/ physician. P331 Do NOT induce vomiting.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical Name	CAS-No.	Concentration
DISTILLATES (PETROLEUM), SOLVENT-	64742-65-0	>=30 - <60 %
DEWAXED HEAVY PARAFFINIC		

4. FIRST AID MEASURES

General advice : First aid is not normally required. If symptoms develop, seek

medical attention.

First aid measures for different exposure routes

In case of eye contact : Flush eyes with water at least 15 minutes. Get medical

attention if eye irritation develops or persists.

Remove contact lenses.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off immediately with plenty of water.

If inhaled : Move to fresh air.

If symptoms persist, call a physician.

In case of shortness of breath, give oxygen.

If swallowed : Do not induce vomiting without medical advice.

Never give anything by mouth to an unconscious person.

Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed (new)

: 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)

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

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workplace exposure limits is unlikely to cause pulmonary abnormalities.

Notes to physician (new)

No hazards which require special first aid measures.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : ABC powder

Carbon dioxide (CO2)

Dry chemical Water mist

Unsuitable extinguishing

media

: Halons

Specific hazards during

firefighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: Aldehydes

carbon dioxide and carbon monoxide

Ketones

Specific extinguishing

methods

: Keep containers and surroundings cool with water spray.

Prevent fire extinguishing water from contaminating surface

water or the ground water system.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Environmental precautions : Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

: Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up

: Large spills should be collected mechanically (remove by

pumping) for disposal.

Keep in suitable, closed containers for disposal.

Additional advice : Comply with all applicable federal, state, and local regulations.

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7. HANDLING AND STORAGE

Handling

Technical measures : Normal measures for preventive fire protection.

Advice on safe handling : Do not breathe vapours or spray mist.

For personal protection see section 8.

Avoid exceeding of the given occupational exposure limits

(see section 8).

Smoking, eating and drinking should be prohibited in the

application area.

Avoidance of contact : Strong oxidizing agents

Storage

Conditions for safe storage : Store in original container.

Keep containers tightly closed in a dry, cool and well-

ventilated place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Materials to avoid : Strong oxidizing agents

Advice on common storage : No special restrictions on storage with other products.

Other data : Stable under recommended storage conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value (Form of exposure)	Control parameters / Permissible concentration	Basis
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	64742-65-0	TWA (Inhalable fraction.)	5 mg/m3	PY OEL
MOLYBDENUM DISULFIDE	1317-33-5	TWA (Inhalable fraction.)	10 mg/m3	UY OEL
MOLYBDENUM DISULFIDE	1317-33-5	TWA (Respirable fraction.)	3 mg/m3	UY OEL
MOLYBDENUM DISULFIDE	1317-33-5	TWA (Respirable fraction.)	3 mg/m3	EC OEL
MOLYBDENUM DISULFIDE	1317-33-5	TWA	10 mg/m3	EC OEL

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		(Inhalable fraction.)		
MOLYBDENUM DISULFIDE	1317-33-5	TWA (Inhalable fraction.)	10 mg/m3	PY OEL
MOLYBDENUM DISULFIDE	1317-33-5	TWA (Respirable fraction.)	3 mg/m3	PY OEL
MOLYBDENUM DISULFIDE	1317-33-5	TWA (Inhalable fraction.)	10 mg/m3	CR OEL
MOLYBDENUM DISULFIDE	1317-33-5	TWA (Respirable fraction.)	3 mg/m3	CR OEL
MOLYBDENUM DISULFIDE	1317-33-5	(Respirable fraction.)		CR OEL
MOLYBDENUM DISULFIDE	1317-33-5	(Inhalable fraction.)		CR OEL

US. ACGIH Threshold Limit Values

Components	CAS-No.	Value (Form of exposure)	Control parameters / Permissible concentration	Basis
MOLYBDENUM DISULFIDE	1317-33-5	TWA (Respirable fraction.)	3 mg/m3	ACGIH
MOLYBDENUM DISULFIDE	1317-33-5	TWA (Inhalable fraction.)	10 mg/m3	ACGIH

Engineering measures : Provide sufficient mechanical (general and/or local exhaust)

ventilation to maintain exposure below level of overexposure (from

known, suspected or apparent adverse effects).

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Eye protection : Safety glasses with side-shields

Hand protection : Wear resistant gloves such as:

Material : polyvinyl alcohol

Skin and body protection : Wear as appropriate:

Safety shoes

Hygiene measures : Ensure that eyewash stations and safety showers are close to the

workstation location.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste

Colour : grey
Odour : mild

pH : No data available Freezing point : No data available

Boiling point : > 371 °C

Flash point : not applicable

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : < 1 mmHg (37.78 °C)

Density : 0.8918 g/cm3 (25 °C)

Solubility(ies)

Water solubility : No data available Solubility in other solvents : No data available Partition coefficient: n- : No data available

octanol/water

Auto-ignition temperature : No data available Thermal decomposition : No data available

10. STABILITY AND REACTIVITY

Possibility of hazardous

reactions

: No hazards to be specially mentioned.

Hazardous polymerisation does not occur.

Incompatible materials : Strong oxidizing agents

11. TOXICOLOGICAL INFORMATION

Product

Acute oral toxicity : No data available

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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

Aspiration toxicity : May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

No data available

Components:

No data available

Persistence and degradability

Product:

No data available

Components:

No data available

Bioaccumulative potential

Product:

No data available

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Components:

No data available

Mobility in soil

Product:

No data available

Components:

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : No data available

Components:

No data available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with the European Directives on

waste and hazardous waste.

Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.

DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

International transport regulations

REGULATION

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

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

INOLUANOETOUS GOOGS	Not	dangerous	agods
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

UN 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.

15. REGULATORY INFORMATION

Other international regulations

Notification status

16. OTHER INFORMATION

Further information

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 Valvoline's Environmental Health and Safety Department.

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.

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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